SAVANNAH STATE COLLEGE

A Unit of The University System of Georgia

1989 – 1990

Special Notice

The statements set forth in this Catalog are for information purposes only and should not be construed as the basis of a contract between a student and this institution.

While the provisions of the Catalog will generally be applied as stated, Savannah State College reserves the right to change any provision listed in this Catalog, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes. Information on changes will be available in the Offices of the Registrar, the Vice President of Student Affairs, and the academic deans. It is especially important that students note that it is their responsibility to keep themselves apprised of current graduation requirements for their particular degree program.

Savannah State College, an affirmative action/equal opportunity education institution, does not discriminate on the basis of sex, race, age, religion, handicap, or national origin in employment, admissions, or activities.

THE SAVANNAH STATE COLLEGE BULLETIN

A SENIOR, RESIDENTIAL UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA

GENERAL CATALOG ISSUE 1989-90

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Savannah, Georgia 31404

Civil Rights Compliance

Applicants for admission to Savannah State College are admitted without regard to race, color, creed, religion, national origin or sex.

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ACADEMIC CALENDAR 1989-90

FALL QUARTER, 1989

September

10	Sunday	Residence Halls Open for New Students (See Explanation of Fees in College Catalog)
11-15	Monday-Friday	FRESHMAN ORIENTATION AND REGISTRATION
13	Wednesday	FACULTY INSTITUTE
18-19	Monday-Tuesday	Registration for Returning Students
20	Wednesday	First Day of Classes
20-21	Wednesday-Thursday	Late Registration and Schedule Adjustment Period (ADD & DROP). Thursday is the last day to register or enter classes. REGISTRATION ENDS
29	Friday	Vice President notifies Deans of Faculty Eligible for Promotion and Tenure

October

6	Friday	Faculty Applications for Promotion and Tenure Due to Department Heads
11	Wednesday	Academic Council Meeting
16	Monday	Department Heads Recommendation Due to Deans (Promotion and Tenure)
23	Monday	Deans Notify Personnel Committee of Faculty To Be Reviewed for Tenure and Promotion
23-24	Monday-Tuesday	University System Language Skills Examination (REGENTS TEST). Faculty requested not to schedule other exams on these days.
25	Wednesday	Faculty Meeting
25-26	Wednesday-Thursday	Mid Quarter Examinations
27	Friday	Notification of non-renewal of contract for non-tenured faculty in their second one year contract due to Vice President
30	Monday	Reporting of Mid-Quarter Deficient Grades

November

6-17	Monday-Friday	Pre-Advisement and Advanced Registration for Winter Quarter
8	Wednesday	Academic Council Meeting
9	Thursday	Last Day to Drop Classes without Penalty
10	Friday	Reading Day
11	Saturday	HOMECOMING
22	Wednesday	Faculty Meeting
22	Wednesday	Personnel Committee Recommendations Due to Deans (Promotion and Tenure)
23-24	Thursday-Friday	THANKSGIVING RECESS
27	Monday	Classes Resume

December

1	Friday	Last Day of Classes
4-6	Monday-Wednesday	Final Examinations
6	Wednesday	Fall Quarter Ends
7	Thursday	Report Final Grades to Registrar by Noon Vacation for Faculty on 9 Month Contracts Begins
14	Thursday	Deans Submit Promotion and Tenure to Vice President
18 January 1	Monday-Monday	College Closed for Christmas and New Year's Holidays

WINTER QUARTER, 1990

January

2	Tuesday	Faculty/Staff
3	Wednesday	Registration
4	Thursday	First Day of Classes
4-5	Thursday-Friday	Late Registration and Schedule Adjustment Period. (ADD & DROP) Friday is the last day to register or enter classes. REGISTRATION ENDS.
10	Wednesday	Academic Council Meeting
12	Friday	Last Day to File Applications for June Graduation

12	Friday	Last Day to File Applications for June Graduation
12	Friday	Notification of non-renewal of contract to non-tenured faculty in their initial one year contract due to Vice President
12	Friday	Vice President Submits Promotion and Tenure Recommendations to President
15	Monday	Martin Luther King's Birthday (HOLIDAY)
24	Wednesday	Faculty Meeting

February

1	Thursday	Catalog Revisions for 1990-91 due to the Vice President's Office
5-6	Monday-Tuesday	University System Language Skills Examination (REGENTS' TEST). Faculty requested not to schedule other exams on these days.
8-9	Thursday-Friday	Mid Quarter Examinations
12	Monday	Reporting of Mid-Quarter Deficient Grades
12	Monday	Recommendations of Promotion to Chancellor's Office
5-16	Monday-Friday	Pre-Advisement and Advanced Registration for Spring Quarter
14	Wednesday	Academic Council Meeting
19	Monday	Last Day to Drop Classes Without Penalty
28	Wednesday	Faculty Meeting

March

9	Friday	Honors Convocation (All College Assembly)
12	Monday	Recommendations of Tenure to Chancellor's Office
14	Wednesday	Last Day of Classes
15-16	Thursday-Friday	Final Examinations
19	Monday	Final Examinations

19	Monday	Winter Quarter Ends
20	Tuesday	Report Final Grades.
20-23	Tuesday-Friday	SPRING BREAK

SPRING QUARTER, 1990

March

26	Monday	Registration
27	Tuesday	First Day of Classes
27-28	Tuesday-Wednesday	Late Registration and Schedule Adjustment Period (ADD & DROP). Wednesday is the last day to register or enter classes. REGISTRATION ENDS.

April

2	Monday	Deans and Directors Submit Annual Class Schedules to Vice President
2	Monday	Faculty Place Orders for Caps and Gowns for June Graduation
6	Friday	Notification of non-renewal of contract to non-tenured faculty members with two or more years of service to College due to Vice President
11	Wednesday	Academic Council Meeting
13	Friday	GOOD FRIDAY - HOLIDAY
25	Wednesday	Faculty Meeting
30-May 1	Monday-Tuesday	University System Language Skills Examination (REGENTS' TEST). Faculty requested not to schedule other exams on these days.

May

2-3	Wednesday-Thursday	Mid-Quarter Examinations
7	Monday	Reporting of Mid-Quarter Deficient Grades
7-18	Monday-Friday	Pre-Advisement and Advanced Registration for Summer Quarter
9	Wednesday	Academic Council Meeting

14	Monday	Last Day for Dropping Classes Without Penalty
23	Wednesday	Faculty Meeting
31	Thursday	Commencement Rehearsal - Civic Center

June

2	Saturday	President's Reception for Seniors
3	Sunday	Commencement
5	Tuesday	Last Day of Classes
6-8	Wednesday-Friday	Final Examinations
8	Friday	Spring Quarter Ends
11	Monday	Report Final Grades

SUMMER QUARTER, 1990

June

18	Monday	Registration
19	Tuesday	First Day of Classes
19	Tuesday	Late Registration and Schedule Adjustment Period. (ADD & DROP). Tuesday is the last day to register or enter classes. REGISTRATION ENDS.

July

4	Wednesday	HOLIDAY — FOURTH OF JULY
16-27	Monday-Friday	Pre-Advisement and Advance Registration for Fall Quarter
23-24	Monday-Tuesday	University System Language Skills Examination (REGENTS' TEST). Faculty requested not to schedule other exams on these days.
16	Monday	Mid Quarter Examinations
17	Tuesday	Reporting of Mid-Quarter Deficient Grades

August

8	Wednesday	Last Day of Classes
9-10	Thursday - Friday	Final Examinations
10	Friday	Summer Quarter Ends
13	Monday	Report of Final Grades

UNIVERSITY SYSTEM OF GEORGIA

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B.A., Morehouse College; M.A., New York University; Ph.D., Michigan State University

George J. O'Neill, Jr. ..... Acting Vice President for Academic Affairs
B.A., Youngstown State University; M.A., Ph.D., University of Southern California

Prince K. Mitchell ..... Vice President for Business and Finance
B.S., Savannah State College.

Charles Woodard ..... Vice President for Student Affairs
B.S., Edinboro University; M.A., Wayne State University; Ph.D., University of Michigan

Thomas H. Hines ..... Director of Development and College Relations
M.H.S., Lincoln University (Pennsylvania)

Robert L. Ray ..... Director of Admissions and Records
B.A., University of LaVerne; M.B. Ed., Savannah State College

Charles J. Elmore ..... Assistant to President
B.S., Savannah State College; M.A., Ph.D., University of Michigan.

Andrew J. McLemore ..... Librarian
A.B., Morehouse College; M.S.L.S., Atlanta University; M.B.A., Georgia Southern College; J.D., John Marshall Law College.

Ja. A. Jahannes ..... Dean, School of Humanities and Social Sciences
B.A., Lincoln University; M.A., M.A., Hampton Institute; Ph.D., University of Delaware.

Margaret C. Robinson ..... Dean, School of Sciences and Technology
B.S., Savannah State College; M.S., University of Michigan; Ph.D., Washington University.

Leo G. Parrish, Jr. ..... Dean, School of Business
B.S.E.E., M.S.I.M., Ph.D., Georgia Institute of Technology.

Gary F. Norsworthy ..... Dean, Coastal Georgia Center for Continuing Education Savannah State College-Armstrong State College
B.A., M.A., Ph.D., Florida State University.

Willie G. McLemore ..... Director, Developmental Studies
B.S., Alabama A & M College; M.A., Atlanta University; Ed.D., University of South Carolina.

THE UNIVERSITY SYSTEM OF GEORGIA

The University System of Georgia includes all state-operated institutions of higher education in Georgia — 4 universities, 15 senior colleges, 15 junior colleges. These 34 public institutions are located throughout the state.

A 15-member constitutional Board of Regents governs the University System, which has been in operation since 1932. Appointment of Board members — five from the state-at-large and one from each of the state's 10 Congressional Districts — are made by the Governor, subject to confirmation by the State Senate. The regular term of Board members is seven years.

The Chairperson, the Vice Chairperson, and other officers of the Board are elected by the members of the Board. The Chancellor, who is not a member of the Board, is the chief executive officer of the Board and the chief administrative officer of the University System.

The overall programs and services of the University System are offered through three major components: Instruction; Public Service/Continuing Education; Research.

INSTRUCTION consists of programs of study leading toward degrees, ranging from the associate (two-year) level to the doctoral level, and certificates.

Requirements for admission of students to instructional programs at each institution are determined, pursuant to policies to the Board of Regents, by the institution. The Board establishes minimum academic standards and leaves to each institution the prerogative to establish higher standards. Applications for admission should be addressed in all cases to the institutions.

A Core Curriculum, consisting of freshman and sophomore years of study for students whose educational goal is a degree beyond the associate level, is in effect at the universities, senior colleges, and junior colleges. This Curriculum requires 90 quarter-credit hours, including 60 in general education—humanities, mathematics and natural sciences, and social sciences— and 30 in the student's chosen major area of study. It facilitates the transfer of freshman and sophomore degree credits within the University System.

Instruction is conducted by all institutions.

PUBLIC SERVICE/CONTINUING EDUCATION consists of non-degree activities, primarily, and special types of college-degree-credit courses.

The non-degree activities are of several types, including short courses, seminars, conferences, lectures, and consultative and advisory services, in a large number of areas of interest.

Non-degree public service/continuing education is conducted by all institutions.

Typical college-degree-credit public service/continuing education courses are those offered through extension center programs and teacher education consortiums.

RESEARCH encompasses investigations conducted primarily for discovery and application of knowledge. These investigations include clearly defined proj-

ects in some cases, non-programmatic activities in other cases. They are conducted on campuses at many off-campus locations.

The research investigations cover a large number and a large variety of matters related to the educational objectives of the institutions and to general societal needs.

Most of the research is conducted through the universities; however, some of it is conducted through several of the senior colleges.

The policies of the Board of Regents for the government, management, and control of the University System and the administrative actions of the Chancellor provide autonomy of high degree for each institution. The executive head of each institution is the President, whose election is recommended by the Chancellor and approved by the Board.

Institutions of the University System of Georgia

H — On-Campus Student Housing Facilities
Degrees Awarded: A—Associate; B—Bachelor's; J—Juris Doctor;
M—Master's; S—Specialist in Education; D—Doctor's

Universities

Athens 30602
University of Georgia—H; B,J,M,S,D
Atlanta 30332
Georgia Institute of Technology—H; B,M,D
Atlanta 30303
Georgia State University—A,B,M,S,D
Augusta 30912
Medical College of Georgia—H; A,B,M,D

Senior Colleges

Albany 31705
Albany State College—H; B,M
Americus 31709
Georgia Southwestern College—H; A,B,M,S
Augusta 30910
Augusta College—A,B,M,S
Carrollton 30118
West Georgia College—H; A,B,M,S
Columbus 31993
Columbus College—A,B,M,S
Dahlonega 30597
North Georgia College—H; A,B,M
Fort Valley 31030
Fort Valley State College—H; A,B,M
Marietta 30061
Kennesaw College—A,B
Marietta 30060
Southern Technical Institute—H; A,B
Milledgeville 31061
Georgia College—H; A,B,M,S
Morrow 30260
Clayton State College—A,B
Savannah 31406
Armstrong State College—H; A,B,M
Savannah 31404
Savannah State College—H; A,B,M
Statesboro 30460
Georgia Southern College—H; A,B,M,S
Valdosta 31698
Valdosta State College—H; A,B,M,S

Junior Colleges

Albany 31707
  Darton Junior College—A
Atlanta 30310
  Atlanta Metropolitan College—A
Bainbridge 31717
  Bainbridge College—A
Barnesville 30204
  Gordon College—H; A
Brunswick 31523
  Brunswick College—A
Cochran 31014
  Middle Georgia College—H; A
Dalton 30720
  Dalton College—A
Decatur 30034
  Dekalb College-A
Douglas 31533
  South Georgia College—H; A
Gainesville 30403
  Gainesville College—A
Macon 31297
  Macon College—A
Rome 30161
  Floyd College—A
Swainsboro 30401
  East Georgia College—A
Tifton 31793
  Abraham Baldwin Agri. College—H; A
Waycross 31501
  Waycross College—A

University System of Georgia
244 Washington Street, S.W.
Atlanta, Georgia 30334

HISTORY

By Act of the General Assembly on November 26, 1890, the State of Georgia "established in connection with the State University, and forming one of the departments thereof, a school for the education and training of Negro students." A commission was appointed to procure the necessary grounds and buildings, and to prescribe a course of study that would include those studies required by the Morrill Land-Grant Acts of 1862 and 1890.

The Commission on the School for Negro Students was designated as the Board of Trustees for the School, with perpetual succession subject to the general Board of trustees of the University of Georgia. The Chancellor of the University of Georgia was given general supervision of the school.

A preliminary session of the school was held between June 1 and August 1, 1891, at the Baxter Street School building in Athens, Georgia. Richard R. Wright, the first principal, and three other instructors comprised the faculty. In the following year the school was moved to its present site, which is approximately five miles southeast of the Courthouse of Savannah, Georgia, partly in Savannah and partly in Thunderbolt. The school was given the name "The Georgia State Industrial College for Colored Youths," and its faculty consisted of Major Wright as President, instructors in English, mathematics, and natural sciences, a superintendent of the mechanical department, and a foreman of the farm. The College awarded its first baccalaureate degree in 1898.

During the thirty years that Major Wright served as President of the College, enrollment increased from 8 to 585 and the curriculum was expanded to include a normal division in addition to four years of high school. Training in agriculture and the mechanical arts also was begun.

The first women students were admitted as boarders in 1921; the first summer session was conducted in 1922; and in 1925 the governing body of the College was changed from a Commission with "perpetual succession" to a Board of Trustees whose members were appointed for four year terms. All of these changes occurred during the presidency of C.G. Wiley, the first alumnus of the College to become president, who served from 1921 to 1926.

Under President Benjamin F. Hubert (1926-1947), the entire academic program was reorganized. The high school and normal departments were discontinued and the school became a four-year college. In 1931, when the University System was placed under a Board of Regents, the College began to offer additional bachelor's degree programs with majors in English, the natural sciences, social sciences, and business administration, as well as in agriculture and home economics.

Until 1947, the college served as the State Land-Grant Institution for Negroes. In that year this function was assumed by Fort Valley State College.

During the administration of President James A. Colston (1947-1949), the faculty was strengthened, and improvements were made in the physical plant. Among the programs that were launched at this time were the Alumni Scholarship Drive, Campus Chest, Annual Men's Day, Religious Emphasis Week, Freshmen Week, and the Cultural Artists Series. Expanded programs of students personnel services, public relations, a reading clinic, and an audio visual aids laboratory were instituted under the leadership of President Colston.

Dean W. K. Payne became acting president of the college on September 1, 1949. The Regents of the University System of Georgia changed the name of the College from Georgia State College to Savannah State College on January 18, 1950. Dr. Payne became the fifth President of the college in March 1950; he served in this capacity until his death on July 26, 1963.

At the beginning of Dr. Payne's administration, Savannah State College was granted membership in the American Council on Education. During the course of his administration the curriculum was expanded and improved and the institution was admitted to membership in the Southern Association of Colleges and Schools. In addition, the academic program of the College was organized under seven divisions — Business Administration, Education, Humanities, Natural Sciences, Social Sciences, Technical Sciences, and Home Study.

Timothy C. Meyers served as acting president from the time of Dr. Payne's death until November 1, 1963. Meyers had served as dean of the faculty since September, 1953.

Under the leadership of Dr. Howard Jordan, Jr. (November 1, 1963 through January 31, 1971), significant, far-reaching and innovative programs were initiated in all aspects of the College's development. Curricula improvements in the general education program in teacher education, and in business administration, as well as other areas, were carried forward. A graduate studies program in elementary education was initiated in the summer of 1968. The mantle of educational leadership at Savannah State College passed from Dr. Jordan to Dr. Prince A. Jackson, Jr., on February 1, 1971.

Many of the improvements and innovations begun during President Jordan's administration came to fruition during the first year of Dr. Jackson's tenure. At the time of this appointment, the new President was chairman of the Division of Natural Sciences and director of the Institutional Self-Study which resulted in reaccreditation of the College by the Southern Association of Colleges and Schools in December, 1971. During that same year the College was accredited by the National Council for the Accreditation of Teacher Education (NCATE). The three engineering technology programs—civil, electronics, and mechanical—were accredited by the Engineers' Council for Professional Developments in 1973. President Jackson, the second alumnus of the College to become its President provided vigorous and dynamic leadership geared to the task of increasing all of the College's resources and employing them to meet more effectively the rising aspirations of Black Americans and other disadvantaged persons for a richer and more rewarding life. Dr. Jackson served until March 27, 1978, when he was succeeded by Dr. Clyde W. Hall, who at the time of his appointment as acting president was chairman of the Division of Technical Sciences.

In September 1979, due to the desegregation plan mandated by the Department of Health, Education and Welfare, the faculty and students in the Division of Education at Savannah State College were transferred to Armstrong State College and Savannah State College received the faculty and students in the Division of Business from Armstrong State College in a historic program swap. This program swap resulted in the creation of a new School of Business at Savannah State College during the 1979-80 academic year.

Additionally, on April 13, 1980 the Board of Regents of the University System of Georgia approved a new Administrative organization plan for Savannah State College for 1980-81. Under the plan Savannah State was reorganized into three

schools — Business, Humanities and Social Sciences, and Sciences and Technology. On September 15, 1980, Dr. Wendell G. Rayburn became the eighth president of Savannah State College. Dr. Rayburn served the college for eight years. Under his leadership on the undergraduate level academic programs in social work were initiated and received professional accreditation. At the graduate level, a master's degree in public administration was begun. Dr. Rayburn was also responsible for a resurgence by the faculty and staff of participation in public service efforts which benefit the Savannah community.

On February 1, 1988, Dr. Wiley S. Bolden became the acting president of Savannah State College. Dr. Bolden served as acting president until August 31, 1989.

On September 1, 1989, Dr. William E. Gardner, Jr. became the ninth president of Savannah State College.

Buildings and Grounds

The campus, comprising 165 acres, presents a unique setting of natural beauty. Among its 38 buildings are two that were constructed during the administration of Major Richard R. Wright: Hill Hall (1901), and Hammond Hall (1915), both of which have been extensively renovated in recent years. Hill Hall is occupied by most of the Federal Programs and Extended Services; and Hammond Hall is currently unoccupied.

W.K. Payne Hall, a two-story air conditioned building, is a main classroom building. In addition to its fifteen classrooms, it also provides office space for thirty-two instructors (including four departmental offices), data processing facilities, a secretarial center, a language laboratory, a reading clinic and the Learning Resource Center. Most of the classes in the English, Social Sciences, and Modern Languages are held in this facility.

Other classroom buildings, and the Departments that each houses are Herty Hall (1937)—Mathematics and Physics; Hubert Technical Sciences Center (1960)—Engineering Technology and Chemistry; Morgan Hall (1936) and Morgan Hall Annex; J. F. Kennedy Fine Arts Center (1967)—Fine Arts; the Griffith-Drew Center for the Natural Sciences (1971)—Biology; Wiley-Wilcox Gymnasium Complex — Physical Education, the Marine Biology Building (1989); and, the School of Business Building (1989).

Completing the physical facilities of the campus are those buildings used for activities that are auxiliary to the instructional process, those used as student residence halls and those used to house the maintenance and operational staffs. The Martin Luther King-Varnetta Frazier Student Center Complex (1969) houses the Student Counseling Offices, the College Dining Hall, the Post Office, and the offices directly involved in student activities. Adams Hall (1931), formerly used as the dining hall, is now an annex of the Student Center, while Powell Hall, constructed in 1932 as the Laboratory School for the College, houses the student-created Ethnic Culture Center.

Three new buildings were completed in 1976. A new library, destined to be the first circular-shaped library in the state, was occupied that year and serves as the hub for the other buildings located on the southern portion of the campus. Adjacent to the new library is the Helen Adele Whiting Hall. This building houses

the School of Business. The third new building is the NROTC Armory located adjacent to the stadium. A portion of this building serves as an athletic field house. In 1982 the President's House and a Health Services Building were completed.

Residence halls include — Smith-Bowen for women (1971) and Melvin Bostick Men's Residence Hall (1972). Both dormitories are air-conditioned, as is A. E. Peacock Hall (1967) and Lockette Hall (1965). Peacock Hall accommodates 180 men and Lockette Hall, 180 women. Lester Hall (1985), a dormitory for young women, completes the list of residence halls now used for housing accommodations. Camilla Hall (1938) has been converted to married student housing. Wright Hall (1951), a former dormitory, is being utilized to provide additional academic and administrative office space. The studio for FM radio station WHCJ is also in Wright Hall.

Most of the plant operations are directed from Medgar Evers Plant Operations Complex, a modern facility that houses the main offices for Plant Operations and the College Warehouse. Housekeeping services are now housed in the former field house.

PURPOSE AND GOALS OF THE COLLEGE

Savannah State College is a senior, co-educational unit of the University System of Georgia, strongly committed to the development of the intellectual, social, and professional competence of individuals. Recognizing its historic commitment to the educational needs of the Black student as mandated in its original charter of 1890, the College offers quality education to all students. The Institution offers programs designed to assist students to become active and creative citizens and to attain their fullest spiritual and moral stature.

Located as it is in an important urban and coastal area, the College is committed to a major and continuing interest in developing and implementing curricular, co-curricular, and public service activities that address the issues, concerns, problems, resources, and opportunities of urban and coastal communities. Consistent with the above philosophy, the objectives established by the Institution should enable its students:

1. To acquire the knowledge and skills necessary for the satisfaction of personal and societal needs;
2. To develop individual abilities and intellectual curiosity through research and other scholarly activities;
3. To acquire specialized training in a chosen field;
4. To broaden their understanding of and appreciation for their own and other cultures;
5. To develop an appreciation for mental, emotional, and physical health;
6. To develop an awareness of social and civic responsibility;
7. To enhance their understanding of the problems and opportunities of urban and coastal communities; and
8. To contribute to the resolution of urban and coastal area problems through participation in a limited number of community oriented projects.

THE CORE CURRICULUM, SCHOOLS, DEGREES, AND PROGRAMS

THE CORE CURRICULUM

All bachelor's degree programs and associate degree programs require that students complete a 90 quarter credit hour core of general education courses.

These courses form the foundation of degree programs and guarantee transfer of credit among all colleges and universities in the University System of Georgia. General education, broadly conceived, is that education which is needed by all citizens in a democratic society: the humanities; mathematics and the natural sciences; and the social sciences. General education is seen not only as the accumulation of factual knowledge in these areas, but also as a pursuit of learning, attitudes, competencies, and values believed to give students a sense of meaning and direction in their lives.

The core requirements are as charted below, although specific courses may vary according to the degree sought. The courses should be completed before a student begins junior year courses.

Area I. Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II. Mathematics and Science: 20 hours required
- Mathematics ..... 10 hours
  Two-quarter sequence in one
  A Laboratory Science BIO, CHE, PHY, PHS, 10 hours

Area III. Social Sciences: 20 hours required
- World Civilization, United States History, Government, Psychology, and Sociology

Area IV. Courses Appropriate to the Major: 30 hours required
- Area IV courses are selected by the faculty of each department or school to provide the necessary foundation upon which the students will build their major courses as juniors and seniors.

Other General Requirements: 9-11 hours required

A. The faculty requires the completion of one introductory course which assists students in making the transition to college and prepares them to be better, more effective students. 3-5 hours

B. The faculty also requires students to complete Physical Education activity courses offered through the Department of Recreation. 6 hours

SCHOOLS

The curriculum of the College is delivered through three schools and one department: The School of Business, The School of Humanities and Social Sciences, The School of Sciences and Technology, and the Developmental Studies Department.

Through its three schools, the College awards the baccalaureate degree, with majors in accounting, information systems, management, marketing, English language and literature, music, criminal justice, history, political science, social work, sociology, chemistry, biology, marine biology, environmental studies, mathematics, civil engineering technology, mechanical engineering technology, electronic engineering technology, process engineering technology, mass communications, computer science technology, and physics.

An Associate of Science degree is offered with majors in marine science technology, Chemical Engineering Technology, and Computer Technology.

Minor fields of specialization are available in accounting, economics, finance, information systems, general business administration, management, marketing, administrative services, English, mass communications, religious and philosophical studies, French, Spanish, German, art, music, biology, chemistry, mathematics, electronic/physics, computer science, naval science, Afro-American Studies, criminal justice, history, political science, psychology, industrial technology management and engineering technology.

Minor programs are to be approved by a student's major department in consultation with the minor department.

SCHOOL OF BUSINESS ..... *Bachelor of Business Administration*
Majors: Accounting, Information Systems, Management and Marketing.

Master of Business Administration
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES ..... *Bachelor of Arts*
Majors: English Language and Literature, Music, History, Political Science, and Mass Communications.

Bachelor of Science
Majors: Criminal Justice and Sociology

Bachelor of Social Work

Master of Public Administration
SCHOOL OF SCIENCES AND TECHNOLOGY ..... *Bachelor of Science*
Majors: Chemistry, Biology, Marine Biology, Environmental Studies, Mathematics, Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, Process Engineering Technology, Computer Science Technology, Physics.

Associate of Science Degree
Areas: Marine Science Technology, Computer Engineering Technology, Chemical Engineering Technology.

ROTC PROGRAMS:

Through the college's Army and Naval ROTC Programs Savannah State College students can prepare for commissioned service as regular or reserve officers in the Army, Army National Guard, Navy, or Marine Corps, commensurate with earning their degree. The Army and Naval ROTC Programs constitute an academic minor in military and naval science, respectively.

ACCREDITATION

Savannah State College has earned the following regional and specialized accreditations:

All degree programs—by the Southern Association of Colleges and Schools

Civil Engineering Technology—by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

Electronics Engineering Technology—by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology and by the National Association of Radio and Telecommunications Engineers, Inc. (NARTE)

Mechanical Engineering Technology—by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

Computer Technology—by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

Social Work—by the Council on Social Work Education

ACADEMIC AFFAIRS

UNDERGRADUATE ADMISSION TO THE COLLEGE

GENERAL INFORMATION

A person who wishes to enroll at Savannah State College must file an application form which can be obtained from the Director of Admissions and Records. An applicant who is a high school student should file an application as early as possible during the senior year. All applications must be filed at least twenty days prior to the date of registration for the quarter in which the applicant plans to enroll. An applicant must furnish evidence indicating that he or she has the ability to do college level work.

Savannah State College reserves the right to reject applications at any time it appears that students already accepted for the quarter for which the applicants wish to enroll will fill the institution to its maximum capacity. The college also reserves the right to reject applicants who are not residents of Georgia.

Savannah State College reserves the right to require that any applicant for admission take appropriate intelligence, aptitude, and physical examinations in order to provide information bearing on his ability to pursue successfully courses of study in which he wishes to enroll, and the right to reject any applicant who fails to pass such examinations, or who is otherwise ineligible for admission.

APPLICATION PROCEDURES AND REQUIREMENTS

Freshman Applicants — those applicants who have never enrolled in an accredited college or university.

Application Checklist

- Complete undergraduate Application for Admission (may be obtained from the Office of Admissions, P. O. Box 20209, Savannah, Georgia 31404, Telephone (912) 356-2181.

- Submit $10.00 nonrefundable application fee with the application (check or money order only).

- Request high school to forward Scholastic Aptitude Test (SAT) of the College Board or the Assessment of the American College Testing Program (ACT). Information for taking these tests and/or obtaining your results may be supplied by your high school counselor or you may write "directly to CEEB" P.O. Box 592, Princeton, New Jersey 08540. For the ACT, write P.O. Box 451, Iowa City, Iowa 52243. The CEEB code number for Savannah State College is 5609 and the ACT code number is 0858. (Scores reported on an official high school transcript are also acceptable.) **NOTE:** An institutional SAT is administered for applicants on a space available basis each quarter at Savannah State College. For further information, please contact our testing office at (912) 356-2202. Institutional SAT's administered at other institutions are not acceptable.

- Official percentile results of the General Equivalency Diploma (GED) test must be submitted in addition to your official high school transcript if you earned the Equivalency Diploma. Information about taking the GED may be obtained from your State Department of Education.

Requirements for Regular Admission as a Freshman

The following minimum requirements must be met in order for a student to receive consideration as a freshman. It should be noted, however, that admission is a selective process and satisfying the minimums will not necessarily guarantee acceptance without additional testing. If a file is not completed in time for testing to be scheduled prior to registration, it may be necessary to delay the application to a future quarter.

1. An applicant must be a graduate of a regionally accredited high school with a diploma (or the General Equivalency Diploma — GED) as opposed to the certificate of attendance. An applicant who is not a high school graduate may be considered for admission based upon completion of the General Education Development Examination (GED) with a score that satisfies the minimum requirements of the State of Georgia. The total score must be 225 or higher. No score lower than 35 will be acceptable in any area, and the composite or average score must be 45 or more.
2. The following College Preparatory Curriculum (CPC) course of study is required of students graduating from high school in the Spring of 1988, or later, who plan to enroll in Savannah State College programs leading to the baccalaureate degree.

Course (Units)	
English (4)	— emphasis in grammar usage, literature (American and World), and advanced composition skills.
Science (3)	— emphasis in physical science and two lab courses in biology, chemistry, or physics.
Mathematics (3)	— two courses in algebra and one in geometry.
Social Science (3)	— emphasis in American History, economics and government.
Foreign Language (2)	— two courses in one language emphasizing speaking, listening, reading and writing.

3. The minimum regular admission requirements of Savannah State College are a combined Scholastic Aptitude Test (SAT) score of at least 750 (with a score of not less than 350 on the verbal section and 350 on the mathematics section, or an American College Testing Program (ACT) composite score of not less than 16 (with a score of not less than 16 on the English section and 11 on the mathematics section individually).
4. Prior to registration, applicants accepted into the Department of Developmental Studies will be required to take the Collegiate Placement Examination (CPE) for advisement and placement purposes. The Department of Developmental Studies will notify the student of test dates and times. The CPE helps to determine whether an individual possesses

the necessary proficiency in English, reading and mathematics. Students are placed in the appropriate developmental course(s) in which they need assistance. Upon satisfactory completion of the requirements as defined by an academic adviser, a student may proceed in an undergraduate degree program.

Note: Students whose performance on the CPE exempts them from the need for any developmental studies coursework will be re-accepted to the degree program for which they originally applied.

Provisional Admission

Students who do not meet the College Preparatory Curriculum will be considered for provisional admission to the College. The following represents the Savannah State College's criteria for provisional admission.

1. English Students graduating with less than the four required units of English will be required to take the Collegiate Placement Examination (CPE) in English and Reading. Based on the score on this test, the student would (1) exempt Developmental Studies English and Reading, or (2) be placed in Developmental Studies English and/or reading.

2. Mathematics Students graduating with less than three required units of mathematics will be required to take the Collegiate Placement Examination (CPE) in mathematics. Based on the score on this test, the student would (1) exempt Developmental Studies mathematics, or (2) be placed in Developmental Studies mathematics at the appropriate level.

3. Science Students graduating with less than the three required units of science will be required to take an additional five hour course (for credit) in a laboratory science. Students will be advised to take a Physical Science (PHS) core course.

4. Social Science Students graduating with less than three required units of social science will be required to complete one additional five quarter hour course (for credit). Students will be advised to take Geography (SOS 111).

5. Foreign Language Students graduating with less than the two units of the same foreign language will be required to complete (for credit) one additional five quarter hours introduction to foreign language course. Students will be advised to take either French 141, German 151 or Spanish 161.

   Note: All course work required as a result of a deficiency must be taken prior to students earning 45 credit hours. In the areas of Social Science, Science and Foreign Language, the student will be required to complete the appropriate course with a "C" grade or better. Students will receive credit for courses used to satisfy College Preparatory Curriculum deficiencies, but such credit may not be used to satisfy core curriculum or degree requirements.

Exceptions to the CPC Requirement

1. Any applicant who graduated from high school prior to Spring of 1988 is exempt from CPC requirements.

2. An applicant applying for any certificate (non-degree) program offered by Savannah State College is exempt from the CPC requirements.

Conditional Admission

An applicant who qualifies for admission to the College but who does not qualilfy for regular admission will be granted conditional admission. A student is conditionally admitted to the College if the SAT score is less than 750 or any part of the SAT score (verbal or math) is less than 350. A student is conditionally admitted to the College if the ACT Composite score is less than 16 or ACT English is less than 16, or ACT Math is less than 11. An applicant who scores less than 250 verbal or 280 mathematics on the SAT (less than 10 on the ACT English or less than 5 on the ACT math) and has less than a 1.8 high school grade point average on all academic courses will be denied admission to the College.

Conditionally admitted students become "regular" students by completing Developmental Studies Requirements within a specified time period.

ADMISSION OF OLDER STUDENTS

Students who have not attended high school or college within the five years previous to their application for admission and have earned fewer than twenty transferable quarter credit hours of college credit are not required to take the SAT or the ACT. These students, however, must take the University System of Georgia's Collegiate Placement Examination and complete any Developmental Studies Program requirements.

Programs leading to career degrees (Associate of Applied Science or Certificates and Non-degree Students)

For placement purposes, students admitted in this category must take the University System of Georgia's College Placement Examination (CPE) in reading, English, and in mathematics. For those students whose scores do not exceed the institution's minimum cutoff scores for Developmental Studies placement, the application of the Developmental Studies requirements depends on the students' program of study:

1. For those students who will take any course which has a Developmental Studies prerequisite in an area (or areas), all Developmental Studies requirements in that area (or areas) must be met.

2. For students who will take no courses with a Developmental studies prerequisite in an area (or areas), the Developmental Studies requirements do not apply. The Director of Developmental Studies will determine whether remediation is needed for these students and shall provide such remediation through appropriate means.

Students who meet Savannah State College requirements for regular admission are exempted from taking the College Placement Examination. Students who have earned an A.A.S. degree may, at the discretion of the Director of Admissions and the appropriate department head, be admitted to a program leading to the baccalaureate degree according to the criteria for admission of transfer students.

Students admitted in this category who have not completed the A.A.S. degree may transfer into programs that lead to a baccalaureate degree if they meet regular (or provisional) admission requirements or if they have earned at least twenty college credit hours with a 2.0 minimum grade point average. All College Preparatory Curriculum and Developmental Studies requirements apply to students in this category although available test scores and completed Developmental Studies work may be applied toward the fulfillment of these requirements.

Students seeking the Associate of Applied Science Degree must fulfill the Georgia Legislative Requirement, but they do not have to fulfill the Regents' Test requirement.

TRANSFER STUDENTS

General policies governing admission of transfer students and acceptance of credit toward advanced standing are as follows:

1. All regulations applicable to students entering college for the first time shall be applicable to students transferring from other colleges, insofar as the regulations are pertinent to the applications of transfer students.

2. Students transferring from another college will supply the Director of Admissions and Records with transcripts of records from colleges previously attended. These transcripts must be sent directly from the registrars of the previous colleges to the Director of Admissions and Records. The Director of Admissions and Records will determine the applicant's academic qualifications on the basis of these transcripts. An applicant will not be considered for admission unless transcripts show honorable discharge from colleges attended or unless the official of the instititution last attended recommends the applicant's admission. If two or more years have elapsed since the applicant's dismissal from the last college or university attended, the admissions committee may review the application for admission.

3. Conditionally admitted transfer students must meet the same admission requirements as individuals admitted to the College for the first time. A complete record of the student's past remedial coursework and CPE scores must be on file in the Savannah State College Admissions and Records Office before the student can be admitted. In addition, a conditionally admitted transfer student must be eligible to return his or her previous institution before the student will be considered for admission to Savannah State College.

4. An applicant transferring from an institution or program that did not require the College Preparatory Curriculum must submit a transcript of secondary school credits unless the applicant has completed both the freshman and sophomore years of college or has graduated from high school before spring, 1988. Transfer students who have not met the College Preparatory Curriculum requirements and who have not completed both the freshman and sophomore years may be admitted only as provisional students under the procedures established by the University System of Georgia.

5. A student who has not earned a degree and is transferring from a career degree program, a certificate program, or non-degree status to a program leading to the baccalaureate degree must meet the requirements specified in number 4 above.

6. Transfer applicants must pay a $10.00 non-refundable application fee.

7. Persons who have earned grades of "C" or higher in courses taken in accredited colleges and who, in the judgment of the Committee on Admissions, have presented otherwise satisfactory credentials may be admitted.

8. Credit allowed for extension, correspondence, CLEP examination or military service schools shall not exceed a total of 45 quarter hours.

9. A transfer student who has earned excessive credit in freshman and sophomore courses may not be granted credit in excess of 90 quarter hours below the junior class level. No more than total of 135 quarter hours will be acceptable as transfer credit.

10. The College reserves the right to *reject* any or all credits from other institutions notwithstanding their accredited status when it determines through investigation or otherwise that the quality of instruction at such institutions is for any reason deficient or unsatisfactory. The judgement of the College on this question shall be final.

11. The evaluation of transfer credit is given a student during the first quarter of enrollment. The College reserves the right to disallow transfer credit for courses if the student's subsequent grades in required courses in the same subject fall below average.

TRANSIENT STUDENTS

A student who has taken work in another college may apply for the privilege of temporary registration at Savannah State College. Such a student will ordinarily be one who expects to return to the college in which he was previously enrolled.

Transient status means that students are admitted for only a specified period of time, normally for one quarter. Applicants for transient status must file a regular application form and submit a statement from their dean or registrar that they are in good standing and have permission to take specific courses at Savannah State College. An application fee ($10.00) is also required. Since transient students are not admitted as regular students, transcripts of college work completed elsewhere are not usually required of such applicants. Transient students who wish to remain at Savannah State College must submit additional statements from their dean or registrar or must meet all requirements for regular admission as transfer students.

SAVANNAH STATE COLLEGE STUDENTS TRANSIENT AT ANOTHER COLLEGE

Savannah State College students who wish to take course work at another college with the intent to apply the courses to their academic record at Savannah State College may do so in accordance with regulations for transient status at

another college. The student must meet the requirements stipulated by the other college, and, in order to apply the credit toward his or her academic record at Savannah State, must meet the academic regulations of Savannah State College. Consult with the Director of Admissions and Records for details prior to enrolling at another institution.

JOINT ENROLLMENT

A student classified by a high school as a senior may apply for the privilege of enrollment to pursue college credit while attending high school. To be admitted, the student must satisfy the following:

1. A GPA of at least 3.0.
2. An SAT score of at least 900 (or the equivalent ACT composite score.)
3. A recommendation from the student's counselor or principal.
4. An excellent record in the field for which the student is seeking to enroll.
5. The written consent of parent or guardian (if the student is a minor).

EARLY ADMISSION

Students who have completed the eleventh grade in high school and have demonstrated outstanding ability to achieve will be considered for early admission. To be admitted the student must meet the following requirements:

1. An SAT score of at least 1000.
2. A GPA of 3.5 or better.
3. A recommendation from the student's counselor or principal.
4. The written consent of parent or guardian (if the student is a minor).

NON-DEGREE SEEKING STUDENTS

Students who have been out of school for five years and who do not wish to pursue a degree, may apply for admission under a non-degree admissions policy. A student registering in the non-degree category must meet the following admissions requirements:

1. A high school diploma or GED equivalent.
2. Scores on the Collegiate Placement Examination (CPE) or equivalent prior to enrollment.
3. Enrollment in Developmental Studies courses in appropriate areas unless exempted by CPE scores.

NOTE: Non-degree students are exempted from completing the College Preparatory Curriculum, SAT or ACT, Georgia Legislative Requirements, and the Regents' Examination. Non-degree students are limited to twenty credit hours.

SPECIAL STUDENTS

All students in classifications not otherwise covered in the College's admissions categories shall be required to meet all requirements prescribed for admission to undergraduate or graduate programs of work and to meet any additional requirements that may be prescribed by the College. Any exceptions to the admission policies may be made only with written approval of the Chancellor of the University System of Georgia.

READMISSION OF FORMER STUDENTS

A student who has not been enrolled at Savannah State College for one or more quarters must apply for readmission on a form provided by the Admission Office. This requirements does not apply to students who do not register for courses during the summer quarter. A former student who has not attended another college since leaving Savannah State may be readmitted provided he is not on suspension at the time he wishes to reenter. A former student who has attended another college since leaving Savannah State must meet requirements for readmission as a transfer student or as a transient student, whichever is applicable. A student who is readmitted after an absence from the College for more than two years must meet degree requirements as listed in the bulletin in effect at the time of his return. An additional application fee is not required.

ADMISSION AS AUDITORS

Students who submit evidence of graduation from an accredited high school or a GED certificate which satisfies the minimum score requirement of the State of Georgia may register as auditors. Students registered as auditors shall be required to pay the regular fees for enrollment and shall be prohibited from receiving credit at any later time for course work that they completed as auditors.

Applicants wishing to audit a course are exempt from the necessity of taking the SAT/ACT or the Collegiate Placement Examination (CPE). Students may not transfer from audit to credit status, nor from credit to audit status. Students who enroll only to audit courses are approved for one quarter at a time and must be approved each quarter.

Faculty members of Savannah State College may attend classes offered by other faculty members without registering as auditors, but they may not receive credit.

ADMISSION OF INTERNATIONAL STUDENTS

Savannah State College subscribes to the principles of international education and to the basic concept that only through education and understanding can mutual respect, appreciation and tolerance of others be accomplished.

A student from a country other than the United States who is interested in attending Savannah State College, should write to the Director of Admissions

and Records, Savannah State College, Savannah, Georgia 31404, U.S.A. The student must meet the following requirements for admission:

1. A completed International Student Application for admission with a $10.00 application fee, which must be in the form of a money order or a certified check. This application must be submitted at least sixty days prior to the beginning of the quarter for which the student wishes to be admitted.

2. Applicants must have the equivalent of a U.S. high school diploma with the equivalent of a 2.0 minimum grade point average on academic work only (on a 4.0 scale).

3. Official transcript(s) of all academic records must be mailed to the Admissions and Records Office with an official translation in English.

4. Applicants must provide evidence of English language proficiency through the TOEFL, SAT, ACT tests, ELS schools, or other institutionally approved programs. The scores from all tests and language school records must be sent to the Admissions and Records Office.

5. All students are required to take the Collegiate Placement Exam (CPE) when they arrive on the campus of Savannah State College.

6. Applicants must submit evidence of financial ability to pursue a full-time education in this country. No financial aid is available for international students. All international students are required to pay out-of-state tuition, unless they are under the sponsorship of an approved local organization and it is authorized by the Director of Admissions and Records.

7. International students with a student visa are required to carry a full course of study in every quarter except the summer quarter. A full course of study at Savannah State College is twelve quarter hours for undergraduate students and ten quarter hours for graduate students.

8. Resident Aliens must present their Green Cards or a copy of their official status to the Director of Admissions and Records.

9. All students must be prepared to obtain adequate health and accident insurance while attending Savannah State College. Prior to registration all international students must provide proof of insurance and a local street address.

After all of the above conditions are met, the Immigration Form I-20 (Certificate of Eligibility) needed to obtain a student VISA will be issued to the applicant. Refund of tuition and fees will be in accordance with the policies and procedures outlined in the College Catalog.

There is an Office of International Student Programs and Services located in Room 5, Hodge Hall. The Coordinator of that office is Ms. Karen Penick, who will assist international students in their needs and interests on campus and within the Savannah community. Scholarships are available through this office. There are also an International Student Association and an international soccer team on campus.

COLLEGE CREDIT BY EXAMINATION AND EXPERIENCES

Savannah State College gives advanced placement, or in some cases college credit, for college-level high school courses, on the basis of the student's score on the College Board Advanced Placement Examination or the Admissions Testing Program achievement tests and approval by the appropriate department head at Savannah State College.

College credit may be granted for satisfactory scores on selected tests of the College-Level Examination Program (CLEP), for satisfactory completion of appropriate courses and tests offered through the United States Armed Forces Institute (USAFI), and for military service schools and experience as recommended by the Commission on Accreditation of Service Experiences of the American Council on Education. Credit by examination and correspondence or extension study may not exceed one-fourth of the work counted toward a degree.

COLLEGE CREDIT FOR MILITARY EXPERIENCE AND TRAINING

Students who wish to have their military experience and training evaluated for college credit should submit a copy of appropriate forms to the Registrar's office. Veterans should submit DD Form 214 and active duty military personnel should submit DD Form 295. Active duty Army personnel and soldiers discharged since October 1, 1986, should also provide the Registrar with a copy of their Army/American Council on Education Registry Transcript.

ADMISSION AS A GRADUATE STUDENT

Applicants for admission to graduate study are expected to meet general admission requirements established for applicants to undergraduate programs. The graduate applicant is required to submit two official transcripts of all courses attempted at the undergraduate level. One copy remains with the graduate office; one is submitted to the Director of Records and Admissions.

Admisson to the Masters in Business Administration (MBA) Program is the responsibility of the Dean of the School of Business and the MBA Coordinator. Admission to the Masters in Public Administration (MPA) Program is the responsibility of the Dean of the School of Humanities and Social Sciences and the MPA Coordinator. Please refer to the sections in this catalog headed Masters in Business Administration and Masters in Public Administration for additional information.

SPECIAL ADMISSION FOR STUDENTS AGE 62 AND OLDER

Georgia citizens who are 62 years of age or older have the privilege, as granted by Amendment 23 of the Georgia Constitution, of enrolling in the college without the payment of fees subject to the following conditions:

1. Must be a legal resident of Georgia.

2. Must be 62 years of age or older and present birth certificate or other proof of age to the Director of Admissions and Records.
3. Must pay for supplies, laboratory or shop fees.
4. Must meet all college and system requirements for admission, including high school graduation, SAT/ACT scores, or Collegiate Placement Examination (CPE) scores to determine whether Developmental Studies is required.
5. If the applicant has previously attended another college or university, he or she may satisfy transfer admissions requirements.
6. Must meet all institutional, system, and legislative degree requirements if they are degree seeking students.

STUDENT EXCHANGE PROGRAM WITH ARMSTRONG STATE COLLEGE

A student enrolled at Savannah State College or at Armstrong State College as a full-time student has the privilege of taking one course with his Dean's approval at the other college without paying an additional fee. A student may obtain in the Office of the Registrar the proper form for permission to register for courses at Armstrong State College.

REGENTS STATEMENT OF DISRUPTIVE BEHAVIOR

The following statement is the policy of the Board of Regents regarding disruptive behavior in any institution of the University System. The rights, responsibilities and prohibitions described in this statement are incorporated as a part of these regulations.

The Board of Regents of the University system of Georgia reaffirms its policies to support fully freedom of expression by each member of the academic community and to preserve and protect the rights and freedoms of its faculty members to engage in debate, decision, peaceful and nondisruptive protest and dissent. The following statement relates specifically to the problem described below. It does not change or in any way infringe upon the Board's existing policies and practices in support of freedom of expression and action. Rather it is considered necessary to combat the ultimate effect of irresponsible disruptive and obstructive actions by students and faculty which tend to destroy academic freedom and the institutional structures through which it operates.

In recent years a new and serious problem has appeared on many college campuses in the nation. Some students, faculty members, and others have on occasion engaged in demonstrations, sit-ins, and other activities that have clearly and deliberately interfered with the regular orderly operation of the institution concerned. Typically, these actions have been the physical occupation of a building or campus area for a protracted period of time or the use of verbal or written obscenities involving indecent or disorderly conduct.

These actions have gone beyond all heretofore recognized bounds of meetings for discussions, persuasion, or even protest in that: (1) acquiescence to demands

of the demonstrations is the condition for dispersal, and (2) the reasonable and written directions of institutional officials to disperse have been clearly ignored. Such activities thus have become clearly recognizable as an action of force, operating outside all established channels on the campus, including that of intellectual debate and persuasion which are at the heart of education.

The Board of Regents is deeply concerned by this new problem. Under the Constitution of the State of Georgia, under all applicable court rulings, and in keeping with the tradition of higher education in the United States, the Board is ultimately responsible for the orderly operation of the several institutions of the University System and the preservations of academic freedom in these institutions. The Board cannot and will not divest itself of this responsibility.

Of equal or even greater importance, such actions of force as had been described above destroys the very essence of higher education. This essence is found in the unhampered freedom to study, investigate, write, speak, and debate on any aspect or issue of life. This freedom, which reaches its full flowering on college and university campuses, is an essential part of American democracy, comparable to the jury system or the electoral process.

For these reasons and in order to respond directly and specifically to this new problem the Board of Regents, stipulates that any student, faculty member, administrator, or employee, acting individually or in concert with others, who clearly obstructs or disrupts, or attempts to obstruct or disrupt any teaching, research, administrative, disciplinary or public service activity, or any other activity authorized to be discharged or held on any campus of the University System of Georgia is considered by the Board to have committed an act of gross irresponsibility and shall be subject to disciplinary procedures, possibly resulting in dismissal or termination of employment.

The Board reaffirms its belief that all segments of the academic community are under a strong obligation and have a mutual responsibility to protect the campus community from disorderly, disruptive, or obstructive actions which interfere with academic pursuits or teaching learning and other campus activities.

The Board of Regents understands that this policy is consistent with resolutions adopted by the American Colleges in January, 1968, and by the Executive Committee of the Association for Higher Education in March, 1968, condemning actions taken to disrupt the operations of institutions of higher education.

CLASS STANDING, GRADES, AND COURSE LOADS

Classification of Students

Students are classified on the basis of earned academic quarter hours as follows:

Freshman—fewer than 45 quarter hours
Sophomore—45 through 89 quarter hours
Junior—90 through 134 quarter hours
Senior—135 or more quarter hours
Graduate—student who has been formally admitted to graduate study

The classification under which a student registers at the beginning of any quarter will continue through the quarter.

STUDENT LOAD

The normal academic work load is 15 hours per quarter for undergraduate students and 10 hours for graduate students. Undergraduate students carrying fewer than 12 hours per quarter and graduate students carrying fewer than 10 hours per quarter will not be certified as full-time students.

Under ordinary circumstances a student may enroll in courses up to but not in excess of eighteen (18) quarter hours. Exceptions may be made for students who are within two quarters of graduation, provided that total hours carried for credit do not exceed twenty-one (21). Credit for an overload will not be granted, however, unless it has been recommended by the students' advisor and approved by the Academic Vice President and the dean of the school.

THE GRADING SYSTEM

The college uses letters to indicate quality of academic work. A is the highest grade; D is the lowest passing grade. Grade distinctions and quality points values are:

Grade	Meaning	Quality Point Value
A	Excellent	4 per credit hour
B	Good	3 per credit hour
C	Average	2 per credit hour
D	Poor	1 per credit hour
F	Failure	0 per credit hour
WF	Withdrew, failing	0 per credit hour
P	Pass	0 per credit hour
IP	In Progress	0 per credit hour
V	Audit	0 per credit hour
K	Credit	0 per credit hour

The grade "F" indicates that the student has failed to meet the minimum requirements of the course.

All courses in the major, minor, professional education or freshman English in which the grade of D is earned must be repeated. The grade of D, like higher grades, can be raised only by repeating the course in which the D was earned.

The following grades also used, but are not included in the determination of the grade of the grade point average.

I (Incomplete) — This symbol indicates that a student was doing satisfactory work, but for non-academic reasons beyond his control, was unable to meet the requirements of the course. The student may remove the I by completing the remaining requirements within three quarters of residence: otherwise the grade of I will be changed to the grade of F by the Registrar. It is the student's responsibility to initiate the completion of unfulfilled requirements with the instructor.

W (Withdrawal) — This symbol indicates that a student was permitted to withdraw without penalty. Withdrawals without penalty will not be permitted after the midpoint of the total grading period (including final examinations), except in cases of hardship as determined by the academic dean and the Vice President for Student Affairs.

V (Audit) — This symbol indicates that a student has been given permission to sit for a course without receiving quality points or a grade other than "V". Students may not transfer from audit to credit or vice versa.

K (Credit — This symbol indicates that a student has been given credit for the course via a credit by examination program approved by the faculty of the College.

Note:

The numbers in parentheses after course descriptions in the catalog refer to lecture, lab and credit hours.

Lecture	Lab	Credit
5	0	5

Withdrawal From Classes (Dropping)

Students desiring to withdraw from classes should secure the Drop/Add forms from their academic department; obtain their instructor's signature; take forms to cashier's office; and then to the Registrar's Office for computer processing. The last day to withdraw without penalty is at mid quarter of each quarter.

ACADEMIC REGULATIONS

Academic Advisement

Each student at Savannah State College is assigned an advisor who has the responsibility of assisting the student in planning and completing an appropriate academic program. The Dean of the Academic School provides general direction to the advisement program, with department heads coordinating activities within their respective areas, assigning advisors to students majoring in the academic discipline(s) for which division or department is responsible. The director of Developmental Studies assigns advisors from the staff to those students who are undecided about the discipline in which they will major. Each student is required to plan his or her academic program with the advisor's assistance, and to obtain the advisor's approval of his schedule of courses each Quarter. Each advisor has the responsibility of counseling advisees about the appropriateness of the academic program they have selected as well as the appropriateness of the schedules of courses selected by the advisee to the timely completion of that program. In addition, the advisor has the responsibility of monitoring the academic progress of advisees, and of assisting them in evaluating their progress and in making decisions about their present and future academic careers based upon that evaluation.

Advisors of junior and senior students will concern themselves specifically with the student's progress toward graduation, maintaining a continually updated record of courses taken and grades received. The advisor will also assist advisees in completing the Application for Graduation, and will certify to the Director of Admissions and Records that all requirements had been met up to the time that the Application was prepared.

CLASS ATTENDANCE

Savannah State College endeavors to provide optimum conditions for student learning. Class attendance is, therefore, required of students to ensure they will be exposed to the many classes, laboratories and related experiences that are provided for their benefit. It is recognized that extenuating circumstances may at times make it difficult for students to attend every class meeting. Should a student be unable to attend a class, it is his/her responsibility to notify the professor of the reasons for such absences, and to arrange with the professor the conditions under which any required work that was missed may be made up. Credit may or may not be awarded for any course if the number of absences exceeds the number of times that the class meets per week.

During the first week of each quarter, professors will notify each class of the attendance policy, emphasizing what constitutes excessive absences, and the penalty therefor. A student may appeal any absence-related decision of a professor to the department head, to the Dean of the professor's school, and ultimately to the Vice President for Academic Affairs.

REPORTING OF GRADES

At Mid-quarter, and at the end of the quarter each faculty member submits to the Office of Admissions and Records the grade reports for each class. These reports are prepared in multiple copies, with copies for the Director of Admissions

and Records, the academic vice president, the department head, and the instructor. In addition, each student receives a Grade Report at the end of each quarter containing the grades and credit hours earned in each course in which he was enrolled, his grade-point average for the quarter, and his cumulative grade-point average.

Mid-quarter grade reports contain grades for students whose work in a course is below the C level at mid-quarter. The Office of Admissions and Records sends copies of such reports to the students, and to the department heads.

CHANGES IN GRADES

Once a grade has been reported to the Office of Admissions and Records it can be changed only under the following conditions:

1. Presentation to the dean of the school of conclusive, documentary evidence that the grade was reported in error;
2. Following the procedure of removal of an I (incomplete) grade; or
3. Upon the recommendation by a committee appointed to conduct a hearing of a student's challenge of a grade, and the acceptance of that recommendation by the vice president for academic affairs.

FORGIVENESS CLAUSE

"The College *will not* count the quarter hours and quality points if a course is repeated and passed with a grade higher than "D." All grades will remain on the transcript. Adjusted grade point averages will be computed on each quarter and used as the official average."

GRADE CHALLENGES BY STUDENTS

A student who feels that he has received an unfair grade in any course may challenge that grade by writing a letter of appeal within 7 days to the head of the department in which the course was offered. Upon receipt of an appeal letter the department head consults within 7 days with the instructor, either with or without the student, in an effort to effect a resolution. If a resolution satisfactory to the student is not effected, the department head may appoint a review committee (exclusive of both the department head and the instructor). The review committee, after hearing both the instructor and the student, submits its report and recommendation to the academic vice-president (through the department head). If the vice-president accepts the review committee's recommendation that the grade be changed or if he reverses a recommendation that a grade not be changed, he directs the registrar to make the appropriate change on the student's record. The student must show adequate evidence of unfair grading for the department head to grant a hearing.

CALCULATING THE CUMULATIVE AVERAGE

Determinations of scholastic standing are generally based upon a cumulative grade point average which appears on each student's permanent record. The cumulative grade point average is calculated by dividing the total number of

grade points earned in academic courses at Savannah State College by the total number of academic credit hours attempted at Savannah State College. Credits earned in other institutions, credit by examination, credits which carry S/U grades, institutional credit courses, and courses specifically excluded by college policy are not used in computing the cumulative grade point average.

CAMPUS HONOR SOCIETIES

SOCIETY	ACADEMIC AREAS
Alpha Kappa Mu	All Areas
Beta Beta Beta	Biology
Beta kappa Chi	Sciences
Pi Gamma Mu	Social Sciences
Sigma Tau Delta	English
Tau Alpha Pi	Engineering Technologies
Phi Alpha	Social Work

RECOGNITION OF EXCELLENCE IN SCHOLARSHIP

Persons who have not been subject to disciplinary action while earning superior grades, and who likewise, have not incurred any academic deficiencies, are eligible for honors status as here indicated:

1. Students who maintain an average of B in not less than a normal load during a given quarter are eligible for listing on the Honor Roll.
2. Students who maintain an average of 3.50 or higher, in a full program in a quarter will have their names placed on the Dean's List for that quarter.
3. Students who maintain an average of 3.00 during any quarter may secure permission to take additional hours during the following quarter, the total not to exceed twenty hours. Additionally, students whose general average is 3.00 or better may be permitted to take quarter hours in excess of a normal load up to a limit of 20 quarter hours.

GRADUATION HONORS

Graduation with honors is based upon completion of a minimum attendance period of six quarters and completion of at least ninety hours at Savannah State College. In addition, students who graduate with honors must attain the following grade-point average entire period of college attendance:

Cum Laude	3.00
Magna Cum Laude	3.40
Summa Cum Laude	3.75

ACADEMIC PROBATION AND SUSPENSION

Savannah State College is operated for students who demonstrate seriousness of purpose and ability and disposition to profit by college work. Students who fail to fulfill the scholarship requirements of the institution are subject to scho-

lastic discipline. At the end of each quarter the Office the Registrar computes cumulative grade point averages in order to determine the academic standing of all students in residence. At that time the Registrar shall notify the Vice-President for Academic Affairs of the College prior to notification of students and their parents or guardians of the academic probation, suspension, or dismissal of students. In addition, he shall notify other appropriate personnel of this action.

1. Any student who earns a D or F in English 107, or 109 or in any course required in his major or minor must repeat the course during the next quarter that it is offered.

2.

Stages of Progress Quarter Hours	Minimum Cummulative Grade Point Average
1-45	1.5
46-90	1.7
90-120	1.9
121 and above	2.0

A student whose cumulative grade average at the end of any quarter is at or above the minimum grade point average for his appropriate stage of progress will be considered in *good standing.*

A student whose cumulative grade point average first falls below the minimum grade point average for his stage of progress will then be placed on academic warning.

A student on academic warning whose cumulative grade point average is not raised to the satisfactory level for his stage of progress at the end of the quarter will then be placed on *academic probation.*

A student who does not achieve the cumulative grade point average for his stage of progress, but does maintain a 2.0 grade point average for his probationary quarter will be continued on probation for the next quarter of attendance.

A student who does not raise his grade point average to the minimum level for his stage of progress or achieve a 2.0 grade point average during his probationary quarter will be *suspended* from the College for one quarter.

3. A student on probation (1) may not register for less than ten hours and not more than thirteen hours; (2) must repeat all courses in which he earned the grade of F that are prescribed in his curriculum and all courses in his major and minor concentration and Freshman English in which he earned the grade of D; (3) must report to his academic advisor for counseling immediately after being notified of his probationary status, and (4) will not be permitted to represent the College or hold office in any college organization.

4. Any student who fails all of his classes during a given quarter, or who withdraws from all of his classes without an approved withdrawal from the College, will not be permitted to enroll for the succeeding quarter.

5. A student who has been suspended for academic reasons may be readmitted when he has complied with the following procedures:

a. Submission of an Application for Readmission at least thirty (30) days prior to the beginning of the quarter that he expects to return;

b. Submission of evidence of increased motivation and maturity.

The College reserves the right to deny admission to any student who has been suspended for academic reasons.

6. Applications for Readmission are considered by the Committee on Admission on the basis of detailed information concerning the cause of failure, academic goals, entrance tests, college grades previously earned, length of absence, motivation, outside commitments, and recommendations from appropriate personnel.

7. A student readmitted after suspension will be placed on academic probation and will be subject to the regulations listed in number two above.

ACADEMIC SUSPENSION FOR DEVELOPMENTAL STUDIES STUDENTS

Students who do not complete the requirements for each Developmental Studies area after a maximum of four (4) attempts per area will be suspended from the institution for one quarter.

A student who is readmitted will be allowed one attempt per area to satisfy any Developmental Studies deficiencies, and shall take no other work simultaneously at this institution without authorizaton from the Director of Developmental Studies. Readmitted students not exiting Developmental Studies within one attempt per area will then be suspended for three quarters after which they may only be readmitted upon written permission of the president, and then only for two attempts per area (during this time students will not be allowed to take any other courses).

STUDENT ACADEMIC GRIEVANCE APPELLATE PROCEDURES (Disciplinary)

A. *Original Jurisdiction:*

1. *Initial and Original Jurisdiction* — All student grievances of an academic nature in the College shall rest with the individual departments for a decision. The student shall have the option of accepting this decision or of making an Appeal. This step is handled by the School's Educational Policy Committee.

B. *Appeals:*

1. *Right of Appeal* — Appeals shall be available to every student in an academic grievance proceeding against the School. The appeal must be filed within forty five (45) calendar days with appropriate Department Head.

2. *Appellate Procedure* — When a decision of original jurisdiction has been rendered, the Grievant shall have seven (7) calendar days to appeal

this decision. All appeals shall be in writing and supporting documents presented to the Dean of the School.

Within three (3) days, the Appellant shall be given, in writing, all charges upon which the original decision was based as well as all necessary information for the appellate hearing procedures. The student shall be guaranteed a speedy hearing, yet given adequate time to prepare his defense.

3. *Jurisdiction of Appeal* — The Vice President of the College shall make the decision regarding all appeals. The Vice President shall have the prerogative of either creating a special committee, or using an independent officer to assist in hearing the case.

4. *Rights of Appellant* — The Grievant shall have the right to:

   (a) Be present when all evidence is presented against him/her and all witnesses appear;

   (b) Have an advisor (non lawyer) present to assist throughout the proceedings;

   (c) Cross-examine witnesses;

   (d) Present evidence by witness or affidavit; and

   (e) Present evidence by deposition when a witness is unable to appear.

5. *Hearing Procedures* — There shall be a record kept of the entire proceedings. This may be done by tape or by a stenographer.

   (a) The hearing will commence by a reading of the charges and the decision of the department of original jurisdiction.

   (b) Evidence will be presented to sustain the decision.

WITHDRAWING FROM COLLEGE

Students at Savannah State College are regarded as young adults who are capable of making mature decisions, with minimum counseling, about their educational plans. Accordingly, any student who feels that the circumstances require his withdrawal from the College may do so by filing the appropriate forms in the office of the Vice President for Student Affairs.

Students who withdraw after the midpoint of each quarter (see Academic Calendar in this catalog and the quarterly Schedule of Classes) will receive the grade of "WF" except in cases of hardship as approved by the academic dean in consultation with the Vice President for Student Affairs. Students should initially petition the Vice President for Student Affairs for relief due to extenuating circumstances resulting in undue hardship.

The Vice President for Student Affairs, counselors, and advisers will counsel with the student in an effort to determine whether the circumstances are such that the College can provide a remedy which will make it possible for the student to remain in school. If such remedy cannot be afforded, the Dean of Students, or his designated representative, will formally approve the request for withdrawal and forward the appropriate forms to the offices of the Academic Vice President, the Director of Admissions and Records, and the Vice President for Business and Finance.

President, the Director of Admissions and Records, and the Vice President for Business and Finance.

Students not able to follow this procedure should write or have a representative write to the Dean of Students, requesting permission to withdraw. Students who withdraw without giving formal notice will forfeit claims for any refunds.

THE LAST DAY TO WITHDRAW FROM ALL CLASSES FOR THE QUARTER WILL BE THE LAST DAY OF SCHEDULED CLASSES.

ACCESS TO STUDENT RECORDS

Savannah State College is covered by the Family Educational Rights and Privacy Act of 1974, as amended (FERPA), which is designed to protect the student's rights with regard to education records maintained by the institution. Under the Act, the student has the following rights:

1. to inspect and review education records maintained by the institution that pertain to the student,
2. to challenge the content of records (except grades—which can only be challenged through the academic appeal procedure) on the ground that they are inaccurate, misleading or a violation of privacy or other rights; and
3. to control disclosures from educational records with certain exceptions.

Savannah State College's written policy on "Access to Student Records" complies with the provisions of the Act. A copy of this policy and a copy of a summary of the FERPA regulations may be obtained in the Admissions and Records Office. Students also have the right to file complaints with the FERPA Office of the Department of Education, Washington, D.C. 20201, regarding alleged violations of the Act.

RELEASE OF DIRECTORY INFORMATION

Directory information will be treated as public information and be generally available on all students and former students, at the discretion of the College.

Directory information includes the student's name; address; telephone number, date and place of birth, major field of study; participation in officially recognized activities and sports, height, weight, age, hometown, hobbies and general interest items of members of athletic teams; dates of attendance; degrees applied for or received; honors and awards received; and previous educational institutions attended by the student.

Any student, or parent of a student who is under eighteen (18), may refuse to permit the release of any or all of the categories of directory information until the end of each academic year (end of Spring Quarter), by submitting a written request to the College's Director of Admissions and Records within ten (10) days of the beginning of any academic quarter during which the student is enrolled. This time requirement is necessary to insure that directory information which is withheld is not included in the various college publications during the year. Of course, requests to withhold the release of directory information will be ho-

nored at any time, but the college cannot be reasonably certain that some directory information will not be released if the aforementioned time limits are not met. The Student Directory is usually published during the Fall Quarter; obviously, requests received after press time cannot delete information from this and similar publications, and previously released information cannot be recalled.

Inquiries from news media about students or former students should be directed to the Director of Public Relations. Due to the unpredictable nature and immediacy of media inquiries, notice cannot be given of media releases (non-athletic). Any student or former student who wishes to have directory information withheld should notify the Director of Public Relations prior to the anticipated date of any media inquiry.

COASTAL GEORGIA CENTER FOR CONTINUING EDUCATION

The Coastal Georgia Center for Continuing Education was established in 1979 to combine the resources of both Armstrong State College's Community Service Division and Savannah State College's Extended Services Area. Utilizing a Downtown Center located at 305 West Broad Street, the Dean of the Coastal Georgia Center for Continuing Education operates a unified Continuing Education program dedicated to serving the people of Savannah, Chatham County, the State of Georgia and, for some programs, beyond those boundaries.

A wide variety of programs are offered at Armstrong State College, Savannah State College, the Downtown Center, and when it is appropriate, at job sites, schools, community centers and other locations in Savannah. Instructors are drawn from the faculties of both institutions, from qualified experts in the Savannah community and from consultants throughout the region.

On the Savannah State campus, the Extended Services Area is responsible for the coordination of all community service/continuing education activities. Since these activities are viewed as a college-wide function, responsibility for program development is shared with the various academic units on campus. The major community service/continuing education components of the College are the short-course/conference program, and the Correspondence Study Office.

Short-Course/Conference Program

The Short-course/conference Program offers non-credit courses; conferences, seminars and workshops for the general public. Formal admission to the college is not required.

Classes meet once or twice weekly during the College's regular quarter. The length of a class meeting ranges from one hour to two hours. No A, B, C, grades are given, but the S or U mark is given denoting a participant's satisfactory or unsatisfactory completion of a course. Continuing Education Units are awarded participants who successfully complete a course, and a record of enrollments maintained.

Correspondence Study

The Correspondence Program — In addition to credit instruction on the campus, Savannah State College is authorized to offer correspondence courses. Such courses have become recognized sources for public education, reflecting a sense of obligation to those who cannot undertake resident instruction and to those who do not require instruction for personal growth and enrichment.

Students registering in correspondence study should meet the minimal requirements of graduation from an accredited high school.

College correspondence study is designed as an auxiliary to regular campus classroom and study materials and instructors are usually the same as those for resident instruction.

Courses completed in this program and courses completed in a similar program at recognized institutions will be accepted for credit toward graduation at Savannah State College under the following conditions:

1) Not more than 45 quarter hours may be earned in correspondence.
2) Not more than 50% of the required courses in the major or minor may be completed in correspondence.
3) Courses may not be taken in correspondence study to remove deficiencies earned in residence.
4) Correspondence courses may not be taken by students who have completed 135 or more quarter hours.

Students desiring to have correspondence credit counted toward graduation should obtain written permission from the chief academic office of the College and present this statement to the Correspondence Study Office.

Information concerning courses, credit, fees, examinations, textbooks, etc., may be obtained from: Correspondence Study Office, Savannah State College, Savannah, Georgia 31404.

School of Business

105. Introduction to Business
201. Principles of Economics
320. Business Finance

School of Humanities and Social Sciences

101. History of World Civilization (to 1500)
102. History of World Civilization (since 1500)
201. World and History Geography
201. Psychological Basis for Human Behavior
202. History of the United States and Afro-Americans through the Civil War
203. History of the United States and Afro-Americans since the Civil War
301. Introduction to Sociology
315. The Family
331. History of Early Europe (to 1789)

332. History of Modern Europe (since 1789)
350. Modern Social Problems
Contemporary Psychological Theories
201. American Government
308. Afro-American History
311. American Constitutional Law
390. Black Politics
405. The American Political Process

School of Sciences and Technology

201. College Algebra

PREPROFESSIONAL PROGRAMS

Savannah State College offers preprofessional training for persons interested in pursuing such paramedical careers as medical technology, nursing, physical therapy, medical illustration, and medical secretary. Preprofessional study is also provided for persons desiring to enter the professions of engineering, law, medicine, veterinary medicine, dentistry and pharmacy.

GEORGIA INTERN PROGRAM

Students who are enrolled full-time at Savannah State College are eligible to participate in the Georgia Legislative Internship Program. Students selected to participate in the Program are assigned to a legislative office or to legislative committees in either the House or Senate, and work directly under and are responsible to the office head or committee chairman. The first hand experience of observing and participating in the legislative process is considered as part of the student's academic program and the student may receive academic credit for such participation. The program at Savannah State College is under the general direction of the head of the Department of Social and Behavioral Sciences.

THE LIBRARY

The Asa Gordon library houses 143,044 catalogued volumes, 24,263 bound periodicals, and over 416,050 microforms. Current subscriptions include 700 periodicals and 20 newspapers. Approximately 2,000 volumes are added yearly to keep the collection up to date. There is an extensive collection of materials by and about Black Americans. A vast array of A-V materials, (calculators, television monitors, film and slide projectors, etc) is also housed in the library.

The circular, air conditioned, two story structure was occupied in January of 1977. Conference and individual study rooms are located throughout the building. There are an elevator and facilities for the handicapped. Periodical subscriptions and the circulation area are located on the first floor. On the second floor are located Reference, Audiovisuals, the Negro Collection and the classroom. Typing facilities are on both floors and smoking is permitted in the smoking lounge.

It is the policy of the library to try to supply, either by purchase or through interlibrary loan, the materials needed by students, staff or faculty.

A well prepared staff is available to assist the campus community at all times.

GENERAL COLLEGE FEES 1989-90

DAY STUDENTS

Fees are subject to change without notice.

Fees per Quarter	**Residents**	**Nonresidents**
Matriculation	397.00	397.00
Tuition		794.00
Health Fee	35.00	35.00
Student Activity Fee	20.00	20.00
Athletic Fee	55.00	55.00
Total	507.00	1,301.00

BOARDING STUDENTS

Fees per Quarter	**Residents**	**Nonresidents**
Matriculation	397.00	397.00
Tuition		794.00
Health Fee	35.00	35.00
Student Activity Fee	20.00	20.00
Athletic Fee	55.00	55.00
Board	395.00	395.00
Room	290.00	290.00
Total	1,192.00	1,986.00

Residents of Georgia who are enrolled for less than 12 credit hours shall pay matriculation fee of $33.00 per credit hour plus the Student Activity and Athletic Fees. Those students who are enrolled for more than five hours will pay the Health fee in addition to the above.

Nonresidents of Georgia will pay the above fees plus nonresident tuition of $66.00 per credit hour.

Married Students' Apartments

Efficiency	260.00 per month
One-bedroom	280/290 per month
Dormitory - Private Room	375.00 per quarter
Late Registration Fee	10.00

Miscellaneous Fees

Transcript	2.00
Post Office Box Rental	2.00 per quarter
Post Office Key Rent	1.00 for duration of box rental
Graduation Fee	
Graduate School	28.00
Undergraduate	25.00
Scholastic Apt. Test	20.00
Vehicle Registration	1.00 per year
Books & Supplies	150.00 approximately per quarter

Service Charges

Breakage (Charges will be assessed by Department, based on actual replacement costs.)	
Duplicated registration and/or other cards or forms from registration packet: copies of receipts or other documents - each piece.	1.00
Replacement of student identification card, meal card, dormitory key, or post office box key.	10.00
Late filing of announcement of candidacy for graduation.	5.00
Removal of Grade "I" - each petition.	2.00
Insufficient funds check collection (each time)	15.00 (or 5% of check amount, whichever is greater.)

Auditors

Students registered as auditors are required to pay regular fees for enrollment.

CAMPUS RESIDENCY POLICY

In accordance with the policies of Savannah State College enacted on September 1, 1975, all freshmen, sophomore, and junior students who are not residents of Chatham County and who are not commuting from their homes outside of Chatham County will be required to reside in the dormitories of Savannah State College at the rate of $290.00 per quarter and to take the Three-Meal Plan at the rate of $395.00 per quarter. Those who are not required to reside but elect to live in the dormitories must purchase at least the Two-Meal Plan.

Students are not required to live on the campus during the summer quarter, but those who elect to live in the dormitories must purchase at least the Two-Meal Plan.

ROOM DEPOSIT

Entering students and continuing students who live in the college dormitories are required to submit a room deposit of $50.00 with their requests for room assignment. Upon registration, $25.00 will be credited toward the student's rent for the quarter. The remaining $25.00 will serve as a damage/room clearance deposit to be refunded upon withdrawal from the College or at the end of the year upon proper clearance with the Housing Office and the absence of any damage to the room. If the student is not accepted by the College, the $50.00 will be returned in full. An applicant who, after acceptance for admission, decided not to enroll at Savannah State College may be refunded 80% of the $50.00 deposit by requesting a refund in writing at least twenty days prior to the registration date for the quarter in which accepted. Contact the Housing Office for further information.

APARTMENTS

On-campus apartments are available for leasing. Students must meet certain criteria to determine eligibility for first-time and continued residency. For further details, please contact the Housing Office.

PAYMENT OF FEES

All general College fees and deposits (Matriculation fees, Student Activity fees, Athletic fees, Health fees, and tuition for nonresidents of Georgia) must be paid at the time of registration as announced by the Vice President for Academic Affairs. A student is not officially registered in the College until such fees and charges are paid.

Students who are recipients of fellowships, stipends, or Work-Study administered by the College may defer their room and board in an amount not to exceed two-thirds of the total Board fees assessed.

Room deposits may be paid by mailing the check to the Housing Office.

Testing fees are collected by the Testing Office staff immediately before tests are administered.

All other fees are payable at the Cashier's Office of the Business Office or at designated areas during registration.

Receipts of proof of payment are issued for all payments, and these should be carefully preserved. No student will be entitled to a refund except after surrender to the Cashier's Office of the student's original receipt, if issued, or cancelled check, money order, or registration card.

REFUND PROCEDURES

Students who are ill at home or are otherwise unable to follow the official procedure for withdrawing should write or have someone write to the Vice President for Student Affairs requesting permission to withdraw.

No refund of fees for any term will be authorized unless the foregoing procedure is completed before the end of such term.

All refunds will be processed and mailed to the students within two weeks following the end of the refund period.

SCHEDULE OF REFUND OF FEES

For students who withdraw during the first seven days (including the first day of registration) of the quarter, 80% of the fees may be refunded; for students who withdraw during the second seven-day period, a refund of 60% will be made; for students who withdraw no later than the end of the third seven-day period following registration, a refund of 40% may be granted; for students who withdraw during the fourth seven-day period following the scheduled registration date, a refund of 20% will be granted. No refund will be made to students who withdraw after the end of the fourth seven-day period following registration.

Room and board charges will be made through the end of the week during which the student withdraws. A student who wishes to withdraw from the dining hall and dormitory must secure a permit from the Vice-President for Student Affairs. This permit, when submitted with the ID, will entitle the student to a refund.

Refunds will not be made to students who do not withdraw officially, nor will refunds be given for reduced loads.

The Schedule of Refunds refers to calendar days, beginning with the first day of scheduled registration.

PERSONAL CHECKS IN PAYMENT FOR FEES WILL BE ACCEPTED DURING THE ADVANCED REGISTRATION PERIOD. PERSONAL CHECKS WILL BE ACCEPTED DURING THE SCHEDULED DAYS OF REGULAR REGISTRATION WITH THE PRIOR APPROVAL OF AN OFFICIAL FROM THE OFFICE OF THE VICE-PRESIDENT FOR BUSINESS AND FINANCE.

UNIVERSITY SYSTEM OF GEORGIA RESIDENCY REQUIREMENTS

To be considered a *legal* resident of Georgia, the applicant must establish the following facts to the satisfaction of the Director of Admissions and Records.

1. (a) If a person is 18 years of age or older, he or she may register as a resident student only upon showing that he or she has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.

   (b) No emancipated minor or person 18 years of age or older shall be deemed to have gained or acquired in-state residence status for fee purposes while attending any educational institution in this State, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.

2. If a person is under 18 years of age, he or she may register as a resident student only upon showing that his or her supporting parent or guardian has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.

3. A full-time faculty member of the University System and his or her spouse and dependent children may register upon the payment of resident fees even though he or she has not been a legal resident of Georgia for the preceding twelve months.

4. Non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service may register as students in the institution in which they are employed on payment of resident fees.

5. Full-time teachers in the public schools of Georgia and their dependent children may enroll as students in the University System institutions on the payment of resident fees, when such teachers have been legal resident of Georgia for the immediately preceding nine months, were engaged in teaching during such nine month period, and have been employed to teach full-time in the public schools of Georgia during the ensuing school year.

6. All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residents shall have the same privilege of qualifying for resident status for fee purposes as a citizen of the United States.

7. Foreign students who attend institutions of the University System under financial sponsorship of civic or religious groups located in this State, may be enrolled upon the payment of resident fees, provided the number of such foreign students in any one institution does not exceed the quota approved by the Board of Regents for this institution.

8. A student is responsible for registering under the proper residency classification. A student classified as a nonresident who believes that he/she is entitled to be reclassified as a legal resident may petition the Registrar for a change in status. The petition must be filed no later than sixty (60) days after the quarter begins in order for the student to considered for reclassification for that quarter. If the petition is granted, reclassification will not be retroactive in prior quarters. The necessary forms for this purpose are available in the Director of Admissions and Record's office.

9. If the parents or legal guardians of a minor change their legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve month period the student may continue his registration only upon the payment of fees at the non resident rate.

10. In the event that a legal resident of Georgia is appointed as guardian of a non resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of court appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fees.

DEGREE AND GRADUATION REQUIREMENTS

EXIT EXAMINATIONS

Additional competency tests appropriate to a student's program of study may be required by the College, and by the student's academic department prior to graduation. Information relative to these tests is available in the student's academic department.

Any student failing to demonstrate required proficiency on any competency test may be required to complete such additional courses as are necessary to correct the deficiency. Courses required and completed under this provision may be with or without academic credit and may be required without regard to prior course credits in these disciplines.

GRADUATION

A degree will be awarded only to students who meet the standards of performance, academic requirements, and residence requirements of an academic school. Degrees are conferred formally at commencement exercises at the end of the spring quarter.

APPLICATION FOR GRADUATION

All candidates for a degree must file a formal application for graduation with the Admissions and Records Office. Associate degree candidates should apply in the quarter in which they expect to attain their sixtieth credit hour or in the third quarter preceding their expected graduation date, whichever comes first. Baccalaureate candidates should apply in the quarter in which they expect to attain their one hundred and thirty-fifth credit hour or in the fourth quarter preceding their expected graduation date, whichever comes first. Graduate degree candidates must apply at least two quarters in advance of the expected date of graduation. The Office of Admissions and Records will inform the student's academic department when the application is filed. The student's major department will conduct an audit and inform the student of any remaining requirements. The Office of Admissions and Records conducts an independent audit to insure that all degree requirements will have been satisfied.

GENERAL REQUIREMENTS FOR THE BACCALAUREATE DEGREE

1. A minimum of 185 quarter hours,including health, physical education, and orientation.
2. A scholastic average of 2.0 or higher.
3. Satisfactory completion of the minimum requirements of the Core Curriculum as outlined for Area I, II, and III, and in the specific degree programs for Area IV.

4. Satisfactory completion of core courses (PSC 200 and HIS 202 or 203) designed to give students proficiency in United States and Georgia history and government.

5. Satisfactory completion of the University System of Georgia Language Skills Examination.

6. A prescribed school or departmental major (such as business administration, chemistry, or engineering technology) or a major of at least 45 hours in one department and a minor of 30 hours in another department, with no grade below "C" in major, minor, or special subject requirements. Certain major courses must be taken in residence at this College.

7. Residence of at least one year at Savannah State College. Students are required to spend the senior year in residence.

8. Completion of all the above requirements within eight calendar years. The College reserve the right to allow exceptions to the requirements when recommended by the head of the department in which the student is majoring.

NOTE:

Graduation requirements include a 2.00 minimum graduation grade point average for undergraduate degrees. The computation of this graduation grade point average will employ only the final attempt in courses which have been repeated. With the preceding exception, the graduation grade point average will be computed in the manner prescribed in The Grading System and Cumulative Grade Point Average sections of the General Catalog. Credits earned in other institutions or by examination, and courses which carry S/U grades, are not used in computing the graduation grade point average.

All incomplete grades for previous quarters must be received in the Admissions and Records Office in writing thirty (30) days prior to graduation date or completion of academic requirements. It is the student's responsibility to see to it that incomplete grades are properly recorded in the appropriate offices.

Noncurrent quarter course grades from colleges other than Savannah State College must be in the Admissions and Records Office by the last day of registration of the quarter of graduation.

REGENTS' TESTING PROGRAM

The policy of the Board of Regents of the University System of Georgia requires that each institution administer an examination to assess the competency level in reading and writing of all students enrolled in undergraduate degree programs in University System institutions. The Regents' Policy statement appears below:

> Each institution of the University System of Georgia shall assure the other institutions, and the System as a whole, that students obtaining a degree from that institution possess literacy competence, that is, certain minimum skills of reading and writing.
>
> The Regents' Testing Program has been developed to help in the attainment of this goal. The objectives of the Testing Program are: (1) to

provide Systems wide information on the status of student competence in the areas of reading and writing; and (2) to provide a uniform means of identifying those students who fail to attain the minimum levels of competence in the areas of reading and writing.

Passing the Regents' Testing is defined as having passed all components of the Test by scoring above the cutoff score specified for each component. The test may be administered either in its entirety or as one or more components depending on the needs of the students. If one component of the Test is passed, that component need not be retaken; this provision is retroactive to all students who have taken the Test in any form since the inception of the program.

The intent of this policy is that passing the Regent's Test occur before the end of the student's sophomore year, that is, before the completion of 105 hours of degree credit. Students who fail the test must retake and pass the Test. Each institution shall provide an appropriate program of remediation and shall require deficient students to participate in that program prior to retaking the test.

INSTITUTIONAL POLICIES REGARDING THE REGENTS' TESTING PROGRAM

All students enrolled in undergraduate degree programs are required to pass the Regents' Examination in reading and writing prior to graduation.

Requirements

1. Students who have earned forty-five (45) credit hours and passed English 107 and 108 are REQUIRED to take Regents' Examination during the next quarter of enrollment after having earned forty-five credit hours.
2. Students who have earned sixty (60) credit hours (regardless of the English courses passed) are REQUIRED to take Regents' Examination during the next quarter of enrollment after having earned sixty credit hours.
3. First time examinees must take both parts of the Examination in one administration.
4. First time examinees are required to sit for the Regents' Testing Program "Test Preparation Seminar" prior to taking the Examination. This seminar is jointly sponsored by the staff of the Comprehensive Counseling Center and the Vice President for Academic Affairs. A student may be excused from this seminar only by the Dean of the School in which the student is enrolled.
5. Students who fail to sit for the Examination as required under numbers 1 and 2 above will be suspended.
6. Students who pass both parts of the Examination in one administration or in separate administrations will be considered to have met the Regents' Examination requirements.
7. Those students who, prior to January 1, 1980, failed to pass both parts of the Examination in one administration, but who passed both parts in

separate administrations, are now considered to have met the Regents' Examination requirement. If these students have completed all other graduation requirements, their date of graduation (the date which will appear on the diploma) will be the first institutional graduation date after January 1, 1980.

Remediation for Regents Examination

Students who have not passed the Regents' Examination before they earn seventy-five (75) hours of credit or who fail either part of the examination after earning seventy-five hours of credit must enroll in English 092 (Writing) or English 093 (Reading) during the quarter subsequent to earning 75 credit hours or failing the Examination. Permission will not be given to retake the Examination unless students complete the remediation courses. Failure to enroll in these required remediation courses will result in cancellation of a student's registration for that quarter. Each of these courses carries five hours of institutional credit and requires that the students successfully complete approximately fifty (50) hours of classroom and laboratory instruction each quarter. Grades in English 092 and 093 will be "S" (Satisfactory), "IP" (In Progress), or "U" (Unsatisfactory). No other grade will be given for either course.

Savannah State College students who may be jointly enrolled at other System schools are required to take their Regents' Examination remedial courses at Savannah State College.

Students who have failed to pass both parts of the Examination must register for both English 092 and English 093. These courses must not be taken concurrently; for example, students must take English 092 during the first five weeks of a quarter and English 093 during the second five weeks of that same quarter. Students required to take both English 092 and English 093 in a single quarter will not be permitted to enroll for more than five (5) regular credit quarter hours.

Students who are required to take either English 092 or English 093 will not be permitted to enroll for more than ten (10) regular credit hours.

Students who have met all other requirements for graduation may register for both English 092 and 093 concurrently.

Failure to sit for the Examination during the quarter in which remediation is taken will result in suspension for one quarter. Students who have been suspended for failure to sit for the Examination when required must re-enroll for remedial courses during their next quarter of enrollment and they must also sit for the Examination that quarter. If these students fail to enroll in remediation their registration will be cancelled.

Student Responsibility

Students are responsible for complying with all Institutional policies regarding the Regents' Testing Program. Failure to comply will result in disciplinary action ranging from cancellation of registration to suspension, depending upon the gravity of the situation.

Academic Advising

Academic advisors should verify compliance with this policy before signing-off on class schedules of their advisees. Accordingly, academic advisors should:

1. Require that students with 45 credit hours sit for the Regents' Test upon the completion of English 107 and 108.
2. Assure that advisees adhere to all policies regarding required sitting and remediation.
3. Encourage students to register for freshmen English during each quarter of enrollment until they pass the three required courses.

Transfer Students

All transfer students from within the System shall be subject to all provisions of this policy. Students from institutions outside the System who transfer to Savannah State College with seventy-five (75) or more earned degree credit hours shall take the Test during the initial quarter of enrollment and in subsequent quarters shall be subject to all provisions of this policy.

Graduate Students

Students with baccalaureate degrees from colleges and universities within the University of Georgia System or from other, regionally accredited colleges and universities will be exempt from these Policies.

Foreign Students

Students whose native language is other than English may be exempted from taking the Regents' Test; however, such students must take the Savannah State College English Competency Test for Foreign Students in lieu of the Regents' Test. Such students are subject to all of the provisions of this policy regarding eligibility and remediation.

Handicapped Students

Students with legal visual, auditory, or motor handicaps may arrange for local certification of competency with the Regents' Test Coordinator.

Essay Test Review Policy

The Regents' Test itself and the scoring criteria are not subject to review; the same methods of scoring will be used during the review process as that in the original scoring. Scoring will follow the normal holistic procedure.

1. A student may request a formal review of his failure on the essay component of the Regents' Test if that student's essay received at least one passing score among the three scores awarded *and* if the student has completed English 107, 108, and 109.

2. A student must initiate the review procedure by mid-term of his first quarter of enrollment after the quarter in which the essay was failed. The review must be initiated, however, within one calendar year from the quarter in which the failure occurred.

3. The review will be initiated at Savannah State College by the student's completing a "Request for Review" form available at the Office of the Regents' Test Coordinator. The Regents' Coordinator will determine the student's eligibility based upon the criteria in paragraphs 1 and 2 above. The review, if warranted, will be conducted by a three-member panel (composed of two English instructors and one additional person) appointed by the Vice President of the College and designated as the on-campus review panel.

4. The on-campus review panel may (1) sustain, by majority opinion, the essay's failing score, thus terminating the review process, or (2) recommend, by majority opinion, the re-scoring of the essay by the Regents' Testing Program central office. The Regents' Test Coordinator will notify the student of the results of the on-campus review.

5. If the on-campus review panel recommends re-scoring of the essay, the Regents' Test Coordinator will transmit that recommendation in writing along with a copy of the essay, to the office of the System's Director of the Regents' Testing Program.

   The System's Director will utilize the services of three (3) experienced Regent's essay scorers other than those involved in the original scoring. The decision of this panel on the merits of the essay will be final, thus terminating the review process. The Regents' Test Coordinator will notify the student of the results of the review.

6. All the applicable regulations of the Regents' Test Policy remain in effect for those students whose essays are under review, including those regulations relating to remediation and to retaking the Test.

Registration Procedures for the Regents' Exam

All students will be notified by the Office of Admissions and Records of the date and time they are *required* to take the Regents test. Failure to take the test at the prescribed time will result in disciplinary action ranging from a *reprimand* to suspension.

FINANCIAL AID

HOW TO APPLY FOR FINANCIAL AID

1. Fill out a Savannah State College Financial Aid Application and submit it to the Office of Financial Aid, Savannah State College, Savannah, Georgia 31404.

2. Fill out the College Scholarship Service Financial Aid Form (FAF) making sure that you check the section pertaining to the Pell Grant and submit this form to College Scholarship Service, Princeton, N.J.

Federal Financial Aid Programs (Title IV Programs)

Federal Financial Aid Programs are administered by the Financial Aid Office at Savannah State College. It is a basic principle that each student shall be helped as an individual with consideration of his own unique situation, circumstances, and need. The primary purpose of the Financial Aid Office is to provide financial assistance to students who, without such aid would be unable to attend Savannah State College. If you are enrolled or accepted for enrollment and are a citizen or permanent resident of the United States, you are eligible to apply for assistance under the following programs:

A. *Pell Grant Program* — Pell Grants provide a "foundation" of financial aid, to which aid from other Federal and non-Federal sources may be added. You may apply if you are an undergraduate on at least a half-time basis. Pell Grants range from $25 to $2300, depending on your eligibility as determined by a standard formula. The formula uses the information you provide on your application to produce an eligibility index number. The index number is not a dollar figure but is used, along with the total cost of attending Savannah State college and your enrollment status, to determine the actual amount of your grant. The Pell Grant Program is an entitlement program. It does not have to paid back.

B. *Supplemental Educational Opportunity Grant Program* — SEOG is for undergraduates with exceptional financial need (with priority given to Pell Grant recipients), and it does not have to be paid back.

C. *College Work Study* — CWS provides jobs for undergraduate and graduate students who need financial aid and who must earn a part of their educational expenses. Jobs are arranged on and off campus with a public or private non-profit agency. Students are employed for as many as 40 hours a week between quarter break periods. During regular enrollment periods students may work up to 20 hours a week.

D. *Perkins Loan Program* — Perkins Loan is a low interest (5 percent) loan for both undergraduate and graduate students and is made through the Financial Aid Office. The College is the lender.

You must repay the Perkins Loan. Repayment begins nine months after you graduate or leave school for other reasons. During the repayment

period you will be charged 5 per cent interest on the unpaid balance of the loan principle.

Under certain conditions repayment of the Perkins Loan may be deferred or canceled. You should contact the financial aid administrator for more details.

E. *Stafford Loan Program* — The Stafford Loan is a low interest loan made by a lender such as a bank, credit union, or saving and loan association. The loan is insured by the guarantee agency in each state and reinsured by the Federal Government.

You must repay the Stafford Loan. Repayment begins 6 months after you graduate, leave school, or drop below half-time.

The maximum you can borrow as an undergraduate who has not successfully completed the first and second years of undergraduate study is $2625. For undergraduates who have completed the first and second years, but have not completed their undergraduate program the maximum is $4000. Graduate and professional students can borrow up to $7500.

To be considered for Federal student aid you must complete the College Scholarship Service's Financial Aid Form (FAF) and the Savannah State College Application for Financial Aid.

OTHER FINANCIAL AID PROGRAMS

Georgia State Student Incentive Scholarship Program
Regents' Opportunity Scholarship
Regents' Scholarships
James H. Porter Academic Scholarship
ROTC Scholarships
Fairway Lincoln Academic Scholarship
Ben Sheftall Scholarship Fund
Sarah Mills Hodge Scholarship
Joseph H. Turner Athletics and Science Scholarship
The Henry Doner Scholarship
SSC General Academic Scholarship
Howard Jordan Scholarship
Colt 45 Distributor Scholarship
Miss Ruby King Scholarship
The Mozella Gaither Collier Memorial Scholarship
Campus Chest Scholarship
Roper Foundation Scholarship
Phineas L. Roberts Memorial Scholarship
Mario de la Guardia Chemistry Award
Azzie Kinsey (Enviro-Tech) Scholarship
Wilbur H. Sullivan - Engineering Technology Scholarship
Suresh Persad Scholarship Fund
George Iocovozzi Scholarship
Scripps Howard Foundation Scholarship
The Jimmie Colson Memorial Scholarship
Atlanta Chapter Scholarship (SSC Alumni)
Miami Chapter (SSC Alumni)
Picket and Hatcher Educational Fund
L. Scott Stell Student Assistance Fund
Jaycee's Scholarship
Georgia Federal Bank Scholarship
Vin Whitson Scholarship
Wine & Spirits Scholarship
General Motors Corporation/EEOC Scholarship

In order to apply for the scholarships listed above, students must complete a "Scholarship Application Form." This application form can be obtained from the Director of Financial Aid.

STANDARDS OF SATISFACTORY ACADEMIC PROGRESS FOR STUDENTS RECEIVING FEDERAL STUDENT AID FUNDS (Title IV)

I. Introduction

The Higher Education Act of 1965, as amended by Congress in 1989, mandates that institutions of higher education establish minimum standards of "satisfactory progress" for students receiving financial aid from Title IV federal programs. These standards apply to the following programs: Pell Grant, State Incentive Grants, College Work-Study Awards, Perkins Loan, and the Stafford Loan.

II. Eligibility Statement for Financial Aid

A student is officially eligible for financial aid as long as he is enrolled as a regular or developmental studies student and maintains an academic average or requirements that meet the College's scholastic standards for continued enrollment.

III. Satisfactory Academic Progress Standards

A student who received aid prior to July 1, 1987 and is enrolled in a program that is longer than 2 years, is eligible to receive financial aid as long as he is eligible for continued enrollment, according to the academic standards stated in the Savannah State College Bulletin (Stages of Progress/Minimum Cumulative Grade Point Average).

If a student received Federal student aid for the first time on or after July 1, 1987 and is enrolled in a program that is longer than 2 years, the student must be maintaining a "C" average by the end of his second academic year or study in order to continue receiving financial aid. A student must continue to maintain satisfactory progress for the rest of his course of study.

A student who has lost his financial aid eligibility because of noncompliance to the Satisfactory Academic Progress Standards may regain his eligibility after one quarter without aid in which he must earn at least a 2.0 grade point average in at least 10 quarter hours.

A readmitted student who has been suspended for academic reasons must, in the first quarter after readmittance, earn a 2.0 grade point average as a full-time student before he is again considered to be making satisfactory progress toward a degree. The award of financial aid will be suspended during this quarter.

The Director of Records and Admissions will inform the Director of Financial Aid of dismissals for academic reasons and unsatisfactory academic progress.

IV. Appeal of Financial Aid Suspension

A student who is suspended from aid may appeal to the Student Financial Aid Committee using a prescribed form on which the student offers reasons why he did not achieve minimum academic requirements and why his aid should not be terminated. The Student Financial Aid Committee will review the appeal and determine whether or not the suspension was justified. The student will be notified in writing of the decision.

STUDENT DEVELOPMENT
Student Affairs

The Vice President for Student Affairs at Savannah State College is responsible to the President for the over-all administration of Student Affairs. Staff members share with the Vice President the administration of the Student Affairs program. In the broadest sense, the Student Affairs program is concerned first with the life of the student outside the classroom.

Residence Life

There are six dormitories and one apartment building operated for students at Savannah State. These structures offer a cross section of facilities, services, and programs. Fees and qualifications for residency in the apartment building are different from those for the dormitories. Assignment to living areas is based on sex and classification. Additional criteria are used for apartment residency. Expectant mothers are not allowed to remain in dormitories.

Residence on campus complements classroom instruction. Education, as well as recreational and cultural, programs are available in the residence halls. There are certain regulations in place to insure that the living/learning processes of students are not unduly interfered with. Such regulations can be found in this catalog and publications distributed by the Office of Student Affairs and the Office of Housing.

The policies of the Board of Regents of the University System of Georgia require that all campus residential units for students be filled before students are permitted to live off-campus. All students below the senior year (135 quarter hours) are required to live on campus, unless a condition below exists:

a. A student is married and furnishes proof thereof;

b. A student's parents are residents of Chatham County;

c. A student commutes from a neighboring county that is within a 50 mile radius of the College;

d. A student is a legal resident of Chatham County;

e. A student (handicapped, expectant mother) with special housing needs.

All students are required to apply for housing at the beginning of the academic year, summer school, and any quarter that is proceeded by a break in continued residence. A room reservation/damage/key deposit is also returned. Students are expected to formally clear housing at the end of Spring and Summer Quarters, and any other quarter if they do not plan to return or graduate. Dormitory directors will sign the appropriate clearance form for students.

Room assignments are made for the academic year. Freshmen students live together, with the exception of student-athletes and other students by permission of the Vice President for Student Affairs. In the event that an occupant of a double room moves out, the remaining student will be assigned another roommate, pay a higher rate, or be assigned to another room.

Students who are required to live in dormitories are also required to purchase a meal plan. Students who have diets prescribed by physicians may be exempted, if the College Cafeteria is unable to prepare the diet meals. Hot plates and other cooking devices are prohibited. If found in rooms, they will be confiscated and the owner charged a penalty fee of $25.00.

Freshman Orientation Course

GED 101. Student Life

This course is designed to expose freshmen students who have not selected a major to a series of group and individualized experiences that emphasize the processes of goal-setting, self-assessment, change strategies and evaluation. Through instruction and consultation, students are encouraged to direct their own development by acquiring appropriate life skills. This two-hour class includes units of instruction that cover; knowing your college, strategies for academic success (study skills, time management), values clarification and self-concept development, test-taking skills, academic planning and career exploration. Two quarter credit hours. All quarters.

Student Conduct

Each student enrolled at Savannah State College is expected at all times to exemplify due respect for order, morality, and the rights of others.

The College reserves the right to exclude at any time any student whose conduct is deemed improper or prejudicial to the welfare of the College community.

Counseling Service

The Comprehensive Counseling Center (CCC) offers professional counseling services to all prospective and regularly enrolled students at Savannah State College. The services offered include academic, personal, social and career counseling as well as an array of test information and interpretive data. These services can be provided in an individual or group setting.

The professional staff consists of the director, staff counselors, and a competent group of peer counselors. The peer counselors provide an opportunity for student-to-student counseling and they render tutorial assistance to students experiencing academic difficulties.

The entire staff operates with the basic understanding that there are some student oriented concerns that extend beyond the scope of their personal resources or areas of expertise. With this in mind, a strong and expansive referral service has been established with other campus based programs and community agencies. Referral made by the staff even to another campus program or office, are made only with the approval of the counselee involved in the given situation.

The center is open Monday through Friday from 8:30 a.m.-5:30 p.m. Counseling is confidential and free to students. The center is located on the second floor of the King-Frazier Student Center, Room 233.

College Orientation

The orientation program is under the supervision of the Comprehensive Counseling Center. It is designed to assist new students in becoming acquainted with other students, with college regulations, with routine procedures, with campus traditions, with the opportunities offered for training have, and with specialized vocational guidance. This program concentrates on all freshmen and new students entering the College in the first week of the fall quarter. Students derive from the program their immediate informational needs.

A follow-up course dealing with the psychology of human relationships, required of freshmen and transfer students, is designed to facilitate the process of total adjustment to college and to guide the student's thinking in reference to the social forces that affect him daily.

College Testing Program

Savannah State College is a national testing center. Several tests are required at the college and some are optional.

Tests administered at the college are:

Graduate Management Admissions Test (GMAT), Law School Admission Test (LSAT), Graduate Record Examination, (GRE), Scholarship Aptitude Test (SAT), National Teacher Examination (NTE), College Level Examination Program (CLEP), and Miller Analogies Test (MAT).

Health Services

The College health services are maintained to improve and safeguard the health of students. These services are under the direct supervision of the school physician and school nurse. Medical examinations, medical care, and health consultations are provided for all students. Harris-McDew Infirmary, a modern, eighteen-bed building, is provided for students who require treatment or confinement for minor illness.

Students who are too ill to attend class must report to the Health Services Building or obtain the services of a private physician. Under no circumstances will students be permitted to remain in the College residence halls. Any illness in the residence halls should be reported to the Health Service immediately.

Armstrong State College students who are in residence halls on the Savannah State College campus are required to pay the health fee.

Each student is urged to take our hospital insurance at the Office of Business and Finance so as to be covered in case of emergencies or the need for hospital treatment. The escalating high cost of hospital and emergency room fees makes this almost mandatory. Each student is directly responsible for his hospital or emergency room fees. The College health fee does not include these services.

Employees will be treated at the Infirmary for emergencies only.

Policy on Drugs and Weapons

The possession or use (without valid medical or dental prescription), manufacture, furnishing, or sale of any narcotic or dangerous drug controlled by federal or Georgia law is prohibited. Violators are subject to arrest and prosecution by College and/or local, state, and federal courts. It is against College rules and regulations for any student to possess weapons such a knives, guns, blackjacks, etc. Persons found in possession of weapons will be subject to disciplinary action by the College and/or local courts.

College Placement Service

The College Placement Service assists all students and graduates of Savannah State College in finding full-time employment. This office attempts to maintain contact with all agencies which will benefit the students of Savannah State College. The Office of Placement is located in King-Frazier Complex, Room 246.

Cooperative Education

Cooperative Education at Savannah State College is a program organized to provide students with (1) professional training in their major areas of study, (2) money to help defray college expenses, (3) and general work experience to enhance a more competitive background upon graduation.

The program allows a student to alternate four (4) academic quarters in a professionalized business setting with four (4) quarters of academic study on campus. The co-op student does this during his sophomore and junior years and spends the entire freshman and senior years on campus.

Further encouragement of the program is evidenced by the college's granting of five (5) course hours per quarter for co-op participation.

Veterans Services

Any veteran or eligible dependent of a veteran who wishes to attend Savannah State College under any one of the veterans' benefit programs should make application in the usual manner to the Director of Admissions and Records. This office advises former service men and women who are eligible for benefits under the G.I. Bill and children of veterans or war orphans who are eligible for VA training allowance benefits. The veterans' counselor makes application for benefits to the Veterans' Administration. Certification of enrollment and program of education must be made to the Veterans' Administration through the Director of Admissions and Records.

A full-time veterans' counselor is available in the Admissions and Records Office to assist students enrolling under the G.I. Bill in processing enrollment forms and with other problems relating to veterans' benefits.

Veterans and other eligible persons entitled to Veterans' Administration Educational Benefits may be certified to the Veterans' Administration for a total of 45 equivalent credit hours in Developmental Studies. Only 15 hours may be attempted in each of the basic skills.

The need for enrollment in Developmental Studies must be established by testing, counseling, and recommendation of a faculty member.

Veterans are encouraged to take advantage of college credit they may be eligible to receive as a result of their military training, as well as the credit by examination programs.

STUDENT ACTIVITIES

Savannah State College contributes to the attainment of a well-rounded education by providing many opportunities for students to participate in a wide range of activities.

Student Government Association

The Student Government Association, composed of representatives of all classes, works with the administration in the governance of the college. It works also with the various campus organizations and sponsors projects for the general welfare of the student body.

Music

The concert choir, band, and Wesleyan choir are open for membership to all students interested in music. Grants-in-aid are available in limited amounts for qualified applicants. These groups perform not only locally but also throughout the state and country.

Publications

The *Tiger's Roar,* official student newspaper, is published every month by students under supervision of the Public Relations Office. The college yearbook, *The Tiger,* is a schoolwide project which is published through the Public Relations Office. WHCJ, the campus FM Radio Station, serves as a training unit for mass communications students.

Organizations

Aerobic Club
American Society of Civil Engineers
American Society of Mechanical Engineers
Baptist Student Union
Catholic Campus Ministry
Cavaliers
Cheerleaders
Club Bahamian
Collegiate Secretaries Club
Computer Science Club
Concert Choir
Dance Ensemble
Deutsch Verein
Graduate Association of Public Administration
India Association
Institute of Electrical and Electronic Engineers
International Student Association
Mass Communications Club
Newtonian Society
Nubreed
Peer Counselors
Phase II
Players By The Sea
Psychology Club
Social Workers of Tomorrow
Student Union Club
Tigers Roar Newspaper

Honor Societies, Fraternities, and Sororities

National honor societies such as Alpha Kappa Mu, Beta Beta Beta, Beta Kappa Chi, Kappa Dela Pi, Phi Beta Lambda, Phi Mu Delta, Sigma Delta Chi, Sigma Tau Delta, Tau Alpha Pi, and the Biomedical Society, have chapters on the campus, and hold membership in the Association of College Honor Societies.

The national social fraternities organized on the campus include Alpha Phi Alpha, Alpha Phi Gamma (journalism), Alpha Phi Omega (service), Kappa Alpha Psi, Phi Beta Sigma, and Omega Psi Phi.

The national social sororities organized on the campus are Alpha Kappa Alpha, Sigma Gamma Rho, Zeta Phi Beta, and Delta Sigma Theta.

The organizations sponsor rich and varied programs designed for the intellectual and social development of all who take part.

Recreation and Sports

The Department of Recreation and Student Affairs Committee conduct a well-rounded intramural athletic program of seasonal activities for men and women. Utilizing group games and various sports for their full education and health values, the program features football, basketball, track and field, tennis, golf, baseball, softball, volleyball, field hockey, badminton, and swimming.

A member of the Southeastern Intercollegiate Athletic Conference, Savannah State College maintains competition in sports sponsored by the conference. Savannah State College also holds membership in the National Collegiate Athletic Association, NCAA Division II.

Qualified instructors in Health, Physical Education, and Recreation provide training in the several aspects of the required activity program. Recreational activities, social dancing, swimming and free exercise activities are encouraged and centered in this area. The area makes every effort to provide wholesome recreational activities for all students.

Cultural Activities

To complement formal education on the campus, the College provides many activities for cultural enrichment. Student assemblies, institutes, motion pictures, lectures, art exhibitions, drama, forums, hobby groups, and tours contribute to the general enrichment of the college community.

The Lyceum Committee brings to the campus renowned concert artists. All students are encouraged to attend these formal activities which afford inspiring association with outstanding personalities.

The Department of Fine Arts sponsors several drama presentations, musical programs and art exhibitions during the school year. The Christmas and Spring Concerts, together with the annual Fine Arts Festival celebrating National Music Week during the first week in May, are significant events in the cultural program of the College.

SCHOOL OF BUSINESS

Faculty:

LEO G. PARRISH, JR., Dean

Edward Alban
Tsehai Alemayehu
Hayward S. Anderson
Barbara D. Bart
Johnny Campbell
George F. Conlin
Carl J. Davis
Thomas R. Eason
William G. Hahn
Jeraline D. Harven
J. Alexander Heslin, Jr.
W. Jan Jankowski
Robert E. Jensen
Mary Lou Lamb
Arthur Levy
Victor W. Lomax, Jr.
William D. McCarthy
Jackson McNeil
Robert Morgan
Jane Hass Philbrick
Henri C. Pusker
George R. Reid
Swannie Richards
Terry K. Sheldahl
Charlease T. Stevenson
Carol D. Tapp
Ralph Traxler

Staff:

Shevon Carr, Assistant to the Dean
Carolyn W. Gillyard, Sheri D. W. Saleem, and Patricia H. Williams, Secretaries
Carl J. Davis, Director, Computing Services
Christy H. Divine, Special Projects Coordinator
Thomas R. Eason, Director, Economic Education Center
Zelda James, Administrative Assistant, Title III Grant
Indira Koganti, Computer System Operator
Lester Lamhut, Senior Programmer

The School of Business provides professional education in business administration through major programs in Accounting, Information Systems, Management, and Marketing. These programs are designed to prepare the graduate to function in a dynamic environment and are based on the principles and methods employed in business and other enterprises.

The purpose of the School of Business is to provide to each graduate with a sound educational foundation for professional employment or for graduate study.

ACADEMIC COUNSELING

Each student, in the School of Business (undergraduate and graduate) is assigned to an academic adviser in the student's major area of specialization. Each new student should request assignment of and be counseled by an adviser before attempting to register for any course.

Each student, working with an adviser, will plan the student's academic progress through his/her career at Savannah State College. The plan as approved by the adviser will be recorded as a permanent part of the School's records.

The general rules covering a student's course work in the School of Business are these:

1. A student must complete all Area I - IV courses before registering for any upper division course, or the student must concurrently complete the last course(s) in Area IV and the first course(s) in the upper division. In all cases prerequisites for each individual course must be observed. While the student is enrolled in any Area I, II, III or IV course, he/she is considered to be a Pre-Business student without a major area of specialization. When the student has successfully completed all Area I, II, III, and IV courses and has passed both parts of the Regents' Exam, he/she is eligible to declare a major area of specialization.

2. A student must complete with at least the minimum required grades all prerequisites for a course that requires them. That is, if a prerequisite course requires a grade of C or higher for credit, the student must achieve a grade of C or higher in the prerequisite before registering for the subsequent course. Refer to "SPECIAL REQUIREMENTS FOR BUSINESS STUDENTS" following.

3. A student must complete (or complete concurrently) all other courses in the Common Body of Knowledge (CBK) before registering for BAD465 Business Policy. The CBK courses are

ACC300	Managerial Accounting
BAD317	Legal Environment
BAD320	Business Finance
BAD331	Business Statistics
BAD332	Quantitative Analysis
BAD340	Principles of Marketing
BAD362	Organizational Theory and Behavior
BAD420	Production Planning and Control
BAD440	Management Information Systems
ECO407	Government and Business
BAD465	Business Policy

The student should plan to take BAD465 Business Policy during the last or next-to-last quarter of the senior year.

DEGREE PROGRAMS

The School of Business offers programs leading to the degrees Bachelor of Business Administration (BBA) and Master of Business Administration (MBA). The BBA degree requires completion of 198 quarter credit hours in specified courses; the MBA degree requires an additional 60 quarter hours in specified courses.

A student who enrolls as a Special Student (as defined elsewhere in this Catalog) and who then changes to a degree-seeking status may transfer for credit a maximum of ten quarter hours earned while in Special Student status.

A student in the School of Business may pursue a major in one of the following areas: Accounting, Information Systems, Management, and Marketing. The School of Business cooperates with Armstrong State College in offering programs in Business Teacher Education.

CURRICULUM REQUIREMENTS

All curricula in the SCHOOL OF BUSINESS are composed of five major parts:

GENERAL EDUCATION (Liberal Arts) CORE		60 Qtr. Hrs.
Area I. Humanities	20	
ENG 107-108-109	15	
HUM 232 or 233	5	
Area II. Math and Science	20	
Math 107-110	10	
Laboratory Science 2 Qtr. Sequence	10	
Select from BIO 123, 124; PHS 203, 204, CHE 101, 102 or PHY 201, 202		
Area III. Social Science	20	
HIS 101 or 102	5	
HIS 202 or 203	5	
PSY 201 or SOC 201	5	
POL SCI 200	5	
BASIC BUSINESS CORE		30 Qtr. Hrs.
Area IV. Business Core		
ACC 211-212 Principles of Accounting	10	
BAD 201-Intro. to Infor. Systems	5	
BAD 225-Bus Com & Report Writing	5	
ECO 201-202 Principles of Economics	10	
OTHER GENERAL REQUIREMENTS		13 Qtr. Hrs.
Physical Education	6	
BAD 105-Intro. to the College, to Business & Career Development	5	
ADS 121-Elementary Keyboarding	2	

COMMON BODY OF KNOWLEDGE (CBK) IN BUSINESS		55 Qtr. Hrs.
ACC 300-Managerial Accounting	5	
BAD 317-Legal Environment	5	
BAD 320-Business Finance	5	
BAD 331-Business & Eco. Statistics	5	
BAD 332-Quantitative Analysis	5	
BAD 340-Principles of Marketing	5	
BAD 362-Organizational Theory and Behavior	5	
BAD 420-Production, Planning & Control	5	
BAD 440-Management Information Systems	5	
ECO 407-Government and Business		
BAD 465-Business Policy	5	
MAJOR AREA OF SPECIALIZATION AND NON-BUSINESS FREE ELECTIVES*		40 Qtr. Hrs.
TOTAL		198 Qtr. Hrs.

*See curricula in Accounting, Information Systems, Management, and Marketing.

SPECIAL REQUIREMENTS FOR BUSINESS STUDENTS

Each student enrolled in the School of Business and seeking the BBA degree must satisfy the following requirements before enrolling in upper-division courses in Business or being accepted into a major. (Note: a maximum cumulative total of ten upper division business hours may be taken concurrently with satisfaction of the requirements.)

1. The student must complete Areas I through IV of the core curricululm with a minimum adjusted grade point average of 2.0 and with a grade of C or higher in each of the following courses:

ENG 107	MAT 107	BAD 201
ENG 108	MAT 110	BAD 225
ENG 109	ACC 211	ECO 201
	ACC 212	ECO 202

2. The student must have passed both parts of the Language Skills Exam, also known as the Regents' Examination (see REGENTS' TESTING PROGRAM elsewhere in this Catalog).

Further, each student enrolled in the School of Business and seeking the BBA degree must achieve a grade of C or higher in all courses specified as Major Requirements for the student's major area of specialization.

MAJOR AREAS OF SPECIALIZATION

Listed below are the courses required for each of the major areas of specialization: Accounting, Information Systems, Management, and Marketing.

ACCOUNTING

Major Requirements: as specified
ACC 301, 302, 303, 325, 430, 450 30
Free Electives 10

INFORMATION SYSTEMS

Major Requirements: as specified
BAD 302, 303, 335, 431, 432, 434, ... 30
Free Electives 10

MANAGEMENT

Major Requirements: as specified
BAD 325, 412, 416, or 409 15
Emphasis (Select three courses with adviser approval) 15
Free Electives 10

MARKETING

Major Requirements: as specified
BAD 304, 306, 341, 403, 416, 433 30
Free Electives 10

BUSINESS EDUCATION

In cooperation with Armstrong State College, the School of Business offers the business content courses for the Bachelor of Science in Education major in Secondary Education in the Business Education teaching field. Detailed information may be obtained from the Secondary Education Department at Armstrong State College or the Administrative Services faculty at Savannah State College.

DESCRIPTION OF COURSES

Numbers in parentheses indicate Lecture hours - Lab hours - Credit hours

ACCOUNTING (ACC)

211. Principles of Accounting I. (5-0-5)

The fundamental concepts and procedures of accounting are studied with emphasis both on rationale and technique. The elements of accounting, the accounting cycle, and financial statement presentation are covered in depth for the transactions of a merchandising firm. Computer Aided Instruction (CAI) will be utilized where ever applicable. Prerequisites: MATH 110 and BAD 201.

212. Principles of Accounting II. (5-0-5)

Continuation of ACC 211 with emphasis on partnership and corporate financial reporting. Coverage also includes basic accounting concepts in job order and process costing, the statement of changes in financial position and interpretation of financial statements. Computer Aided Instruction (CAI) will be used whereever appropriate. Prerequisites: ACC 211.

300. Managerial Accounting. (5-0-5)

Study, interpretation, and analysis of accounting data as used in the decision-making process of business and not-for-profit organizations. Prerequisites: ACC 211, ACC 212.

301. Intermediate Accounting I. (5-0-5)

Introduction to accounting theory underlying financial statements. Emphasis on the study of accounting principles relating to the recording and presentation of cash, receivables, current liabilities and the investment in productive resources such as inventorites, plant and equipment. Selected computer applications are used throughout this course. Prerequisites: ACC 212.

302. Intermediate Accounting II. (5-0-5)

Continuation of ACC 301 with emphasis on financial reporting by corporations. Topics include capital stock, retained earnings, dividends and accounting for long-term liabilties. Also included are analysis and interpretation of accounting data, funds flow, earnings per share and ratio analysis. Selected computer software packages are utilized wherever applicable. Prerequisites: ACC 301.

303. Advanced Accounting. (5-0-5)

An intensive study of corporate accounting, analysis, and evaluation of the structure and use of corporate statements and reports, including consolidated statements. Prerequisite: ACC 302.

305. Cost Accounting. (5-0-5)

The course emphasizes uses of basic cost accounting theory and concepts such as factory cost funding under job order, process and standard cost systems. It also covers control and analysis of materials, labor and factory overhead, and introduces computer assistance in assembling data for prompt transmittal and remedial action needed to serve management needs. Prerequisite: ACC 212.

325-326. Federal Income Tax Procedures I and II. (5-0-5)

An analysis of the Federal Income Tax Law and its application to individuals and partnerships. Extensive practical problems; preparation of returns. Part II emphasizes federal taxation on corporations and fiduciary returns, gift taxes and estate taxes. Prerequisite: ACC 301.

430. Accounting for Not-For-Profit Institutions. (5-0-5)
Basic concepts and techniques of fund accounting for governmental, educational, religious, and charitable organizations. Also covers budgeting and management accounting problems of these institutions. Prerequisite: ACC 302 or the consent of instructor.

450. Auditing. (5-0-5)
An intensive study of philosophy, concepts and techniques used by independent auditors. Topical coverage includes professional ethics, standards, audit programs, study and evalution of internal control, auditor's opinions, management services, compliation and review services, statistical sampling techniques, and EDP auditing. Prerequisite: ACC 302.

460. Accounting Information Systems. (5-0-5)
A study of the design and implementation of accounting information systems with an emphasis on computer-based accounting systems from the perspectives of the corporate accountant and the external auditor. Prerequisite: ACC 450.

499. Independent Study and Research in Accounting.
This course is designed for accounting majors who have special interest in research and development in their major area and are capable of working with minimum guidance. Prerequisites: senior status and recommendation of major adviser. Credit not less than one nor more than five quarter hours, as recommended by major faculty and approved in advance of registration by the Dean.

OFFICE SYSTEMS MANAGEMENT (OSM)

121. Keyboarding for Information Processing. (1-2-2)
Introductory course covering alphanumeric keyboarding skills for students who intend to use typewriters, microcomputers, word processors, computer terminals, and other types of information processing equipment. Student may take proficiency test to be exempt.

122. Keyboarding Applications for Business. (2-2-3)
Introduction to production keyboarding. For students who have had one or two semesters of high school typewriting (or OSM 121) and are able to touch-type. Course covers formatting of documents, including letters, manuscripts, and tables. Minimum passing speed: 35 words per minute on five-minute timed writings. Prereqisite: keyboard proficiency.

320. Advanced Keyboarding Applications. (3-4-5)
Further skill development in production of office documents. Includes machine transcription. Minimum passing speed: 50 words per minute. Prerequisite: OSM 122.

340. Word Processing Concepts and Techniques. (3-4-5)
The development of basic concepts and operational techniques on selected word processing units. Typewriting proficiency required.

405. Information and Records Management. (5-0-5)
Creation, maintenance, and disposition of records including hard copy and electronic media. Indexing rules and procedures; records management programs including inventory, retention and disposition schedules; vital records protection; the management of electronic files, micrographics, active and inactive records control are major components of the course.

420. Office Information Systems. (5-0-5)
Trends and issues in office automation. A study of information processing functions focusing on the integration and management of automated office systems. The organizational concept; the traditional and emerging office; characteristics of major support systems; information/data/user interface; analysis and design; future office systems.

BUSINESS ADMINISTRATION (BAD)

105. Introduction to the College, to Business & Career Development. (5-0-5)
This course is designed to acquaint students with the concepts and functions of business enterprises. Students participate in group projects and make oral presentations. Consultants are used to orient students to the challenges, opportunities and personnel of the college and the business world. This course should help students to make decisions relative to their college majors and careers.

201. Introduction to Information Systems. (3-4-5)
A concepts and tools course; includes study of information processing concepts and history; familiarization with terminals and microcomputers; developing introductory level proficiency with a micro based spreadsheet, word processor and filer package. Prerequisite: ADS 201 or keyboarding proficiency.

211/311. Cooperative Education Work Experience. (1-40-5)
Student works full-time in Business and Industry under the supervision of the Director of Cooperative Education. Each course has specific written clock hour requirements. Register with Co-op Office. Credit, one to five quarter hours per quarter.

225. Business Communications and Report Writing. (5-0-5)
The application of basic principles of English grammar, basic report writing, and research techniques to presentations and written communications as demanded in business. The role of written communications in relation to news media enters into the consideration given to communication theory. Prerequisite: ENG 109.

301. Business Programming in BASIC. (5-0-5)
This course covers BASIC programming in a small busines environment. Included are data-entry methods, file-organization methods, data-communication systems and applications, use of program library, and execution of programs in the batch and interactive mode on terminals and microcomputers. A major project will be required. Prerequisite: BAD 201.

302. Computer Programming in a Business Language I. (5-0-5)
An introduction to programming logic using pseudocode, IPO charts, HIPO charts, and flowcharting for algorithm development. Single and two dimension arrays, sequential files, direct access files, and breaks are introduced. Emphasis is placed on problem solving and file handling. This course is designed for business-oriented students. Programming for business information systems. Prerequisite: BAD 201.

303. Computer Programming in a Business Language II. (5-0-5)
Advanced business programming using Cobol. An extension of the programming concepts form BAD 302. Emphasis is placed on business applications using sequential and indexed sequential files with formatted output using breaks and table look-ups. Prerequisite: BAD 302.

304. Salesmanship and Sales Management. (5-0-5)

A study of personal selling; types of customers, problems of administration; and the selection, training, compensation and management of sales forces. Prerequisite: BAD 340.

306. Retailing. (5-0-5)

Principles and practices of buying, advertising, selling, and store management as applied to business enterprises. Prerequisites: BAD 340, ACC 211.

307. Principles of Insurance. (5-0-5)

The theory of insurance and current insurance practices. Uses of insurance, types of insurance, organization types, policies, mortality, etc.

308. Principles of Real Estate. (5-0-5)

Survey of the changing pattern of urban development; the structure of real estate markets; characteristics of real estate resources; financing methods and institutions; introductory valuation principles; taxation of real property; location analysis, city structure; and land use patterns.

317. Legal Environment of Business (5-0-5)

A study of legal rights, social forces and government regulations affecting business; an in depth study of the law of contracts; the law of personal property and bailments.

318. Business Law (5-0-5)

An in-depth study of the Uniform Commercial Code (Sales, Commerical Paper, Secured Transactions and Letters of Credit); a study of Agency and Employment Law; Partnership Law and Corporation Law.

320. Business Finance. (5-0-5)

Principles, problems, and practices associated with the financial management of business institutions; nature and types of equity financing; major types of short-term and long-term dabt; capitalization; financial statements, working capital requirements, reorganization; bankruptcy; methods of intercorporate financing. Prerequisite: BAD 331.

321. Capital Budgeting — Theory and Practice. (5-0-5)

A study of the capital budgeting process; an integration of the budget with relative measures of risk. Prerequisite: BAD 320.

325. Financial Statement Analysis. (5-0-5)

A comphrehensive and contemporary study of the methods of analyzing financial statements relative to decision making by the firm. Prerequisite: BAD 320.

331. Business and Economics Statistics I. (5-0-5)

Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data; measures of central tendency, correlation and deviation, graphic representation, sampling validity and reliability; time series analysis. Prerequisite: Math 110.

332. Quantitative Analysis. (5-0-5)

Mathematical models in business with applications to decision-making under conditions of certainty and uncertainty. Prerequisite: BAD 331.

335. Data Communications (5-0-5)
Principles and techniques of data communications, including hardware software considerations. A study of the technical aspects of data communications. Review of communications protocol, networking and communications system. Comparisons of transmission media. Prerequisite: BAD 303 or instructor permission.

340. Principles of Marketing. (5-0-5)
The distribution of goods and services from producer to consumers, market methods employed in assembling, transporting, storage, sales, and risk taking; analysis of the commodity, brands, sales methods and management; advertising plans and media. Prerequisite: ECO 201.

341. Marketing-Management. (5-0-5)
Management of marketing organizations, with emphasis on planning, organizing and controlling the marketing organizations, internal and external communications; marketing management decision-making. Prerequisite: BAD 340-360.

360. Business Organization and Management (5-0-5)
The basic principles of management applicable to all forms of Business and to all levels of supervision; the managerial functions will be covered and will be the basic orientation to course material.

362. Organizational Theory and Behavior. (5-0-5)
The basic managerial function of planning, organizing and control are examined as key factors in the decision making process. Emphasis is given to the increasing importance of the behavioral sciences as they impact on the management of the organization. Special attention is given to the concept of systems management.

401. Advanced Corporate Finance. (5-0-5)
The financial function of the firm relative to standard institutions and instruments of corporation finance. Prerequisite: BAD 320.

402. Financial Institutions. (5-0-5)
A study of the unique and particular roles played by the several financial institutions in the United States. Prerequisite: BAD 320.

403. Advertising. (5-0-5)
Uses and limitations of advertising as a tool of management; and as a factor in the "marketing mix" of an organization; the sales process and psychological objectives of advertising, copywriting, and layout design types of advertising media; criteria for selection of specific media. Prerequisite: BAD 340.

409. Administrative Practice and Internship. (2-10-5)
One hundred hours of practical work experience are required. In addition, a two-hour weekly seminar is directed toward a study of administrative practices, human relations, and policy development and implementation. Off-campus experience is permitted if arranged in advance. Prerequisite: BAD 360.

410. Administrative Practice and Internship. (2-10-5)
Practical work and seminar requirements are the same as in BAD 409, Administrative Practice and Internship, except that the two-hour weekly seminar is directed toward the completion of a research project in the area of business administration. Prerequisite: BAD 360 and BAD 409.

411. Small Business Management. (2-6-5)
Study of the operation and problems of small businesses in general. Individual investigations of small businesses in the local area and a compilation of written reports will be required of each student. Prerequisite: BAD 360.

412. Personnel Management. (5-0-5)

The methods and procedures used by business management in recruiting, selecting, and maintaining an efficient work force; nature and use of application forms; interviewing techniques; construction and use of service records and job descriptions; job evaluation techniques, and grievance procedures. Prerequisite: BAD 360.

416. Business Research. (5-0-5)

Scientific approaches in solving business problems. Emphasis is placed on the introduction and utilization of analytic research tools. Prerequisites: BAD 360, BAD 340, BAD 331 and senior standing.

420. Production Planning and Control. (5-0-5)

Studies how an enterprise forecasts demand, plans future production, and directs resources to carry out current production. Prerequisites: BAD 360 and BAD 332.

431. Business Systems Analysis and Design. (5-0-5)

Initiation of system design, detailed systems investigation and analysis, system design, design of I/O, system files, systems processing and controls, programming assignment, specifications, testing and documentation. Prerequisites: ACC 212, BAD 303, 320 and 360.

432. Data Base Systems. (5-0-5)

Data structures, multi-keyed data base processing, commercial systems, implementation, database administration, programs and projects. Prerequisite: BAD 431.

433. Advertising Management. (5-0-5)

Its principal orientation is toward individuals responsible for planning, organizing, and controlling advertising and promotional activities. Its principal focus is that of managing the advertising function and developing advertising strategy. The case method is the principal instructional vehicle. Prerequisite: BAD 340, BAD 360, BAD 403.

434. Data Base Implementation. (5-0-5)

Analysis, design and implementation of a database project. Students will be organized into teams to develop and implement a relational or codasyl database as a team project. Teams will complete the database development process to include analysis, planning, design and implementation. Prerequisite: BAD 432 and instructor permission.

440. Management Information Systems. (5-0-5)

Total information system for managerial strategy planning, and control. Information management, the systems approach, storage and data bases, functional information systems, information systems development.

460. Commercial Bank Management. (5-0-5)

An examination of the management function of the commercial banking system; an investigation of the techniques and principles followed by commercial banks in the performance of their many social and economic roles. Prerequisite: BAD 320.

462. Human Relations in Organizations. (5-0-5)

A study of the process of integrating people into the work situation so that they are motivated to work together harmoniously, productively and with economic, psychological and social satisfaction. Prerequisite: BAD 360.

465. Business Policy. (5-0-5)
An integration of knowledge of the various fields of business, with emphasis on decision making. Prerequisite: All other CBK courses.

499. Independent Study and Research in Business Administration.
This course is designed for students in the School of Business who have special interest in research and development in their major area and are capable of working with minimum guidance. Prerequisites: senior status and recommendation of major adviser. Credit not less than one nor more than five quarter hours, as recommended by major faculty and approved in advance of registration by the Dean.

ECONOMICS (ECO)

201. Principles of Macro-Economics. (5-0-5)
Basic economic concepts, with emphasis on the role of government; national income and products; business cycles; money and banking; fiscal and monetary policy, and international trade.

202. Principles of Micro-Economics. (5-0-5)
Basic economic concepts continued from 201. Factors of production; supply and demand; determination of prices and of income; monoplies; the problem of economic growth; and comparative economic systems. Prerequisite: ECO 201.

323. Money Credit and Banking. (5-0-5)
The principles of money and banking with special reference to their functions, credit, the banking process and the banking system, foreign and domestic exchange, the business cycle, and the history of banking. Prerequisite: ECO 201.

401. Labor Economics and Industrial Relations. (5-0-5)
Problems confronting capital and labor; legislation and administrative regulations affecting employees and employers. Prerequisite: ECO 201-202.

405. International Economics and Finance. (5-0-5)
An introduction to the modern theory of international trade, payments mechanism, commercial policy, and economic integration.

407. Business and Society. (5-0-5)
Public policy concerning antitrust, regulation and public enterprise is examined. Business ethics and social responsibilities are given special attention.

431. Investments. (5-0-5)
The investment risks in different investment portfolios; selection of an appropriate balance in accordance with individual or institutional goals and risk-bearing capacity. Types of investments and securities.

SCHOOL OF BUSINESS
MASTERS IN BUSINESS ADMINISTRATION PROGRAM

Graduate Faculty

LEO G. PARRISH, JR., Dean
WILLIAM D. McCARTHY, MBA Coordinator

Edward Alban
Tsehai Alemayehu
Barbara Bart
Thomas R. Eason
William G. Hahn
Jeraline D. Harven
W. Jan Jankowski
Mary Lou Lamb
Victor W. Lomax
Jane Hass Philbrick
Ralph Traxler

PHILOSOPHY

The Masters of Business Administration program is designed to prepare graduates for positions of greater management responsibility in business, industry, government and education.

ADMISSION PROCEDURES

Admission to the MBA Program at Savannah State College may be completed through the MBA Coordinator, School of Business, Savanah State Colege. All admissions documents should be sent to the MBA Coordinator's Office for processing. The application for admission, a $10 fee, and transcripts must reach the College 20 days prior to registration.

The following materials and procedures are part of the requirements for admission to the MBA Program:

1. The application for admission must be completed and submitted by all applicants 20 days prior to registration.
2. Two official transcripts showing all college credits earned for the undergraduate degree should be sent directly from the college which awarded the degree to the MBA Coordinator. Official transcripts are required of all applicants except transient students who may submit a letter of authorization from their graduate school 20 days prior to registration.
3. Graduate Management Admission Test (GMAT) scores must be submitted by all degree-seeking students.
4. Two letters of recommendation from individuals familiar with the applicant's ability to successfully complete the graduate program must be submitted.
5. A $10 application fee is required of all students, except graduates of Savannah State College.

All materials and documents should be submitted as soon as possible, but items as noted above must arrive at least 20 days prior to the registration date of the quarter a student enrolls. Action can be taken on application for admission only after essential materials have been received.

ADMISSION REQUIREMENTS

All applicants for admission to the MBA Program are required to take the Graduate Management Admissions Test (GMAT). This test is administered at Savannah State College and at other testing centers once each quarter. The test is designed to measure aptitude for graduate study in business and is not a measure of knowledge in specific subjects. Therefore, applicants should not delay taking this examination simply because they have not had specific course work in business. A maximum of three attempts for a passing score on the GMAT is allowed for entrance to the MBA at Savannah State College. The Educational Testing Service (ETS) bulletin describing the test is available from the MBA Coordinator's Office.

CATEGORIES OF ADMISSION

Regular Admission (A Degree Status Classification)

Definition

Regular Admission means that a student has met all admission requirements and is admitted to a degree program with full graduate status.

Requirements

To qualify for admission to full graduate status in the MBA program, applicants must show competence in the business common body of knowledge, which requires a basic understanding of accounting, business law, economics, finance, information systems, management, marketing, production, quantitative methods, and statistics. Students who have received a bachelor's degree in business generally have fulfilled this requirement, but students with degrees in other disciplines will need preparatory work in these areas before beginning MBA course work. The preparatory requirements may be met by satisfactory completion of not less than one course (equivalent to 5 quarter hours or 3 semester hours) in each of the following areas:

Accounting	(Principles)
Business Law	(Legal Environment)
Economics	(Micro and Macro Principles)
Finance	(Business, Corporate, or Managerial)
Information Systems	(Introduction to)
Management/Marketing	(Principles)
Quantitative/Production	(Quantitative Applications in Prod.)
Statistics	(Business and Economic)

These preparatory requirements may be satisfied by taking appropriate undergraduate-level or graduate-level prerequisite courses, by correspondence, or by scoring not less than the fiftieth percentile on the appropriate subject examination (s) of the College Level Examination Program (CLEP). The CLEP examinations are available through the testing service of the college.

In addition to appropriate preparatory work, regular admission status requires 950 points based on the formula: 200 times **overall** GPA plus the GMAT total

scores; **or** at least 1000 points based on the formula: 200 times the **upper** division GPA plus the GMAT total scores.

Special Admission (Pre-MBA Status)

Those students applying for admission to the MBA program who have not completed the basic business core (common body of knowledge) must enroll under the Special Admission status. Student records are maintained by both the College Admissions Office and the MBA Office. Students exit from the Special Admissions category upon the satisfactory completion of all required courses and meeting all the other criteria for Regular Admission.

Transient Student (Special Nondegree Status)

Transient students must arrange to have written authorization sent to the Dean, School of Business from their dean, department head, or registrar at the graduate school in which they are enrolled in order to be accepted as a transient student and register in the MBA Program. They must also submit the application for admission and the $10 fee as described in Admission Procedures. If they wish to become degree-seeking students, they must request appropriate admission in writing and must submit the necessary documents.

READMISSION

Any student in the Graduate Program who did not register during the quarter immediately preceding the quarter he/she intends to reenroll must process a readmission form with the Registrar's Office. The only students exempted from this requirement are those who are initially admitted for graduate study.

STUDENT RESPONSIBILITY

The student is charged with the responsibility for taking the initiative in meeting all academic requirements and in maintaining a careful check on his/her progress toward earning a degree. The student is responsible for discharging his/her obligations to the business office and the library. Further, the student is responsible for adhering to the rules and regulations pertaining to graduate students in particular and to all students enrolled in a unit of the University System of Georgia.

TRANSFER OF GRADUATE CREDITS

A maximum of 25 percent (15 quarter hours) of graduate credit may be transferred from another institution, provided:

1. each course equates with a course in the curriculum of the MBA Program or is an acceptable elective;
2. the credit was earned in an accredited graduate program;
3. a grade of "B" or better was earned in each course;
4. the credit was earned no more than six years prior to completion of all degree requirements.

PROCEDURES FOR PROCESSING TRANSFER CREDITS

Requests by students to receive transfer graduate credit must be supported by two copies of the graduate transcript showing the transfer credits requested. The formal and final request for receiving transfer credits is part of the Application for Candidacy which the student must process upon the completion of 25 hours of graduate work. This application is obtained in the MBA Coordinator's Office.

Advisement on transfer of credits is routinely provided on the Program of Study form which every degree-seeking student must complete with an adviser in the first quarter of enrollment. Formal approval of transfer credits is granted via the student's Application for Candidacy which requires approval by the student's adviser and the MBA Coordinator.

ACADEMIC STANDARDS

MBA students must maintain a grade point average of 3.0 or above for all graduate work.

The following criteria apply to all degree categories: (1) Grades of lower than "C" will not receive graduate credit; (2) a maximum of two "C's" may be applied to the degree; (3) a student receiving two "C's" or one "F" shall have his/her record reviewed by the MBA Coordinator and the Graduate Council to determine if the student is to be permitted to remain in a degree-status category; (4) a student receiving two "F's" or any three grades below "B" becomes ineligible for a graduate degree; (5) Any Regular Admission student who has less than a 3.0 average after completing 25 or more hours shall be required to achieve grades of "B" or better in all courses in order to achieve a 3.0 average to return to regular admission.

COURSE LOAD LIMITATION

A full-time graduate student is expected to carry no more than 15 hours per quarter. The course load for the fully employed student should be appropriately reduced in consultation with his/her adviser. A student on academic probation status should carefully plan his/her course load in consultation with the adviser.

WITHDRAWING, DROPPING, AND ADDING COURSES

Withdrawing is, in the technical sense, dropping all courses and processing a formal withdrawal through the Office of the MBA Coordinator which issues a withdrawal form. A student may withdraw from school at any time during the quarter. Only by formally withdrawing, however, can a student become eligible for the refund of fees as explained in the College Catalog. The student bears the responsibility of contacting the Coordinator's Office to officially drop a course and obtain the singature of his/her professor. Course withdrawals before midterm are recorded as "W"; any course withdrawals after midterm are "F".

Adding a course may be accomplished through the Registrar's Office which will process a drop/add slip. Courses may be added only during the late regis-

tration days at the beginning of the quarter and not at any other time during the quarter. The student must pay the appropriate fee for the additional course, unless a course comparable in credit hours is being dropped simultaneously.

ADVISEMENT

Upon admission to the graduate program, each student will be assigned a faculty adviser. The faculty adviser will approve the scheduling of course work, recommend the student for candidacy, and serve as chairman of the student's comprehensive examination committee.

COURSE REQUIREMENTS

The Master of Business Administration program requires 45 quarter hours of core requirements and an additional 15 quarter hours of electives from graduate offerings.

		Quarter Hours
I.	Core requirements	45
	BAD 602—Managerial Microeconomics BAD 603—Information Systems BAD 606—International Business BAD 611—Decision Theory for Business BAD 620—Corporate Financial Policies BAD 630—Managerial Cost and Control BAD 650—Marketing/Management BAD 662—Organizational Behavior and Theory BAD 665—Administrative Policy	
II.	Electives	15
	BAD 601 BAD 604 BAD 613 BAD 621 BAD 622 BAD 645 BAD 651 BAD 663 BAD 698 BAD 699	

ADMISSION TO CANDIDACY

It will be the responsibility of the student to make application for admission to candidacy after the completion of all prerequisite courses and 25 hours of 600-level graduate course work. This application will be in three copies to the faculty adviser. Admission to candidacy is contingent upon verification that the student has attained a "B" average in 25 hours of graduate course work and has met all regular admission requirements.

COMPREHENSIVE EXAMINATION

A final comprehensive examination, to be scheduled in a student's final quarter and at least two weeks prior to graduation, is required of all candidates for the Degree of Master of Business Administration. The final examination will be conducted by a committee consisting of the student's faculty adviser as chairman and other members of the graduate faculty appointed by the MBA Coordinator. The date, time, and place of the examination will be set by the Coordinator after consultation with the faculty adviser and the student.

The Coordinator shall notify the student, the Committee members, and the Dean ten days prior to the examination concerning the proposed place, date, and time of the examination.

The candidate is expected to demonstrate a thorough understanding of the common core of knowledge in business, economics, and statistics, and adequate competency to discuss advanced material in those areas in which he/she has had graduate work.

The examining committee's decision on the candidate's performance on the comprehensive examination shall be reported as passing with distinction, pass, low pass, or failure to the Dean. Should the decision be reported as failure, the committee will outline a program of corrective action to be taken by the candidate prior to his/her reexamination.

COURSE DESCRIPTIONS FOR MBA PROGRAM PREREQUISITES

BAD 201. Introduction to Information Systems. (5-0-5)
A concepts and tools course; includes study of information processing concepts and history; familiarization with terminals and microcomputers; developing introductory level proficiency with a micro based spreadsheet, word processor and filer package. Prerequisite: ADS 201 or keyboarding proficiency.

BAD 317. Legal Environment of Business. (5-0-5)
A study of legal rights, social forces, and government regulations affecting business; an in-depth study of the law of contracts; the law of personal property and bailments.

BAD 320. Business Finance. (5-0-5)
Principles, problems, and practices associated with the financial Management of business institutions; nature and types of equity financing; major types of short-term and long-term debts; capitalization; financial statement analysis, working captial requirements, reorganization; bankruptcy; methods of intercorporate financing; international finance. Prerequisite: BAD 331.

BAD 331. Business and Economic Statistics. (5-0-5)
Introduces students to the methods of scientific inquiry and statistical application. The essentials of vocabulary, concepts, and techniques; methods of collecting, analyzing, and treating data, measures of central tendency, correlation and deviation; graphic representation; sampling validity and reliability; time-series analysis. Prerequisite: MATH 110.

***BAD 501. Economic Principles. (5-0-5)**
An examination of macro- and microeconomic theories with emphasis on the following topics: national income and products; business cycles; money and banking; fiscal and monetary policy; international trade; factors of production, supply, and demand; production and costs; and market structures.

***BAD 511. Accounting Principles. (5-0-5)**
Study of fundamental concepts of accounting, including financial statement preparation and analysis as employed in business decision processes.

***BAD 532. Quantitative Aspects of Production. (5-0-5)**
Mathematical models and related techniques utilized in the production process, and business applications involving decision-making under conditions of certainty, risk and competition. Coverage includes demand forecasting, production planning, and resouce allocation. Prerequisite: BAD 331

***BAD 540. Foundations of Marketing, Management, and Organizational Behavior. (5-0-5)**
Special course for pre-MBA students with undergraduate majors in areas other than business. Prepares the student for graduate level coursework in management, marketing, and organizational behavior by study of fundamental principles and concepts in these areas.

*Denotes course designed for students enrolled in pre-MBA, MPA or other graduate program courses only. Appropriate undergraduate sequences will also satisfy these requirements.

GRADUATE COURSES (BAD)

Required Courses

602. Managerial Microeconomics. (5-0-5)
Price, output, and distribution theory. Economic behavior of households and firms. Prerequisite: Principles of Economics competency.

603. Information Systems. (5-0-5)
Total information systems for managerial strategy, planning and control. Prerequisite: Principles of Accounting competency.

606. International Business. (5-0-5)
An examination of the formulation and implementation of integrated corporate strategy by firms engaged in international business. The course examines diverse aspects of planning, direction and control of the flow of products, technology, capital, personnel, and funds linking the multinational company to its affiliates in a pluralistic political economic, and sociocultural environment. Prerequisite: Principles of Economics competency.

611. Decision Theory for Business. (5-0-5)
Decision-making under uncertainty and risk; utility theory; classical decision theory and its uses in business; risk functions and decision functions applied to business. The course also examines Bayesian decision theory and its uses in business; Bayes decision rules for discrete and continuous cases; value of information and its application to business. Prerequisites: Elementary Statistics competency.

620. Corporate Financial Policies. (5-0-5)
Analysis of financial problems and policies of corporations. Prerequisites: Principles of Business Finance and Elementary Statistics.

630. Managerial Cost and Control. (5-0-5)
The study of physical and monetary input/output relationships and use of such cost studies for managerial strategy, planning, and control. Prerequisite: Principles of Accounting competency.

650. Marketing/Management. (5-0-5)
An examination of new developments in the dynamic field of marketing from the viewpoint of the marketing decision maker. Prerequisite: Principles of Marketing.

662. Organizational Behavior and Theory. (5-0-5)
Study of human behavior in organizations from the behavioral science perspective. Special emphasis is placed on the structural and functional aspects of organizations, the relationships among modern organizations and their members, and the effects of such factors on organizational effectiveness.

665. Administrative Policy. (5-0-5)
Policy making and administration from the top management point of view, encompassing the entire field of business administration.

Electives

601. Macroeconomic Analysis. (5-0-5)
National income accounting. Determinants of national income, empolyment, price level and growth rates. Prerequisite: Principles of Economics competency.

604. Business Relations with Government and Society. (5-0-5)
Business environment with consideration of the economic, legal, and social implications for policy making.

613. Administrative Communication. (5-0-5)
The role of communication in effective management; a study of foundation theory and principles for practical applications; communication problems within, between, and among organizations, industrial, and other groups; forms, media, and channels available for conducting effective communications in business and industry.

621. Investment Management. (5-0-5)
The theory and tools of analysis required in the management of financial assets from the viewpoint of the investor and the investment adviser. Investment media, markets, problems, practices, and philosophies will be studied. Prerequisite: Undergraduate or graduate Business Finance or equivalent.

622. Corporate Capital Markets and Institutions. (5-0-5)
A study of the flow of funds, credit instruments, role of capital institutions and the structure of interest rates.

645. Legal Aspects of Management. (5-0-5)
A study of the law regarding the powers, rights, liabilities and responsibilities of partners, officers, directors and shareholders in the management process, and the effects of antitrust regulations and securities regulations on the managerial decision-making process.

651. Marketing Case Problems. (5-0-5)
Specific case studies of profit and non-profit organizations are examined. Students will be expected to prepare realistic marketing programs that can be implemented to solve a variety of different marketing problems and/or opportunities. Spreadsheet analysis of marketing case information to be conducted on microcomputer as part of course requirements.

663. Industrial Relations. (5-0-5)
Modern industrial relations area and its background. Current problems in labor relations. Prerequisite: Principles of Economics competency.

698. Independent Study in Business. (5-0-5)
Independent research or directed readings in a specified area.

699. Special Topics in Business. (5-0-5)
Seminar in selected subject areas of special interest. Offered to address relevant or timely issues in business.

ECONOMIC EDUCATION
GRADUATE COURSE DESCRIPTIONS

600. Dynamics of the American Economy. (5-0-5)
This course is designed for teachers and consists of a comprehensive overview of the American economic system, with particular emphasis upon critical economic issues that influence society. Teaching methodology, applications, and materials development are presented as an integral part of the course.

610. Personal Finance. (5-0-5)
This course is designed for teachers and covers the basic elements of personal finance needed by individuals and family units in making wise decisions in today's society. Concepts covered include: assessment of individual resources, selective spending, credit, taxes, insurance, savings, investments, and budgeting. The course includes learning activities, curriculum development, and skills acquisition. An introduction to the use of computers in personal finance is integrated into the course.

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DR. JA A. ARTHUR JAHANNES, DEAN

MRS. JYOTI KRISHNAMURTI
SECRETARY TO THE DEAN

MRS. JOSIE WILLIAMS, SECRETARY

The School of Humanities and Social Sciences is comprised of five departments: the Department of Fine Arts, the Department of Humanities, the Department of Recreation, the Department of Social and Behavioral Sciences; and the Department of Social Work and Applied Sociology. The School offers majors in English, mass communications, music, history, criminal justice, social work, sociology, political science, recreation and parks administration, and urban studies. Minors are offered in the following areas: mass communications, English, art, music, religious and philosophical studies, Afro- American studies, psychology, history, sociology, social work, criminal justice, international studies, gerontology, political science, recreation and parks administration, urban studies, voice, dance, and theatre. A Master of Public Administration is also offered in the school.

The general objectives of the School of Humanities and Social Sciences are consonant with the objectives of the College. Specific objectives of the School are as follows:

1. To offer baccalaureate programs of study in the humanities, the social and behavioral sciences, recreation and park administration, and social work.
2. To offer graduate programs in public administration.
3. To prepare students for professional and graduate study in the humanities, the social and behavioral sciences, recreation, and social work.
4. To offer vocational preparation in mass communication and criminal justice.
5. To foster communication with and understanding of other nations and cultures through the study of language, literature, fine arts, and social and behavioral sciences.
6. To offer interdisciplinary studies in humanities, fine arts, and social and behavioral sciences.
7. To encourage research, field study, and creative endeavors in humanities, fine arts, social and behavioral sciences, recreation and park administration, social work and gerontology.
8. To utilize the rich potential of the local urban environment as a learning laboratory in the humanities, fine arts, social and behavioral sciences, recreation, social work and gerontology.

The School of Humanities and Social Sciences requires all entering freshmen students to enroll in and successfully complete HAS 101 - Strategies for Success in College.

DEPARTMENT OF FINE ARTS

ROBERT L. STEVENSON, Head

Clara Aguero
Freddie T. Holt
Willie Jackson
Farnese Lumpkin
Christine E. Oliver

The Department of Fine Arts offers courses leading to a Bachelor of Arts (BA) degree in Music; there are concentrations to fit the student's interest in several areas, such as history and literature, theory, performance. If a student wishes to be certified as a public school teacher, he/she may take education courses at Armstrong State College. A minor in music is available. Students interested in Art can acquire a minor. Courses are available in drawing, crafts, ceramics, history, sculpture, photography, and printmaking. Minors in performance in voice, dance, and theatre are also available.

ADMISSION TO THE MUSIC PROGRAM

It is desirable that all applicants for admission to the major program in music will have at least two years of previous musical training in the vocal and/or instrumental areas. The Department will determine by aptitude test and individual auditions the applicants theoretical knowledge, instrumental and vocal proficiency, and general professional fitness for the program. This information will serve as a guide to the Department in helping the applicant to plan his college work. Students in music are required to do a senior recital.

MUSIC CURRICULUM

JUNIOR COLLEGE CURRICULUM: 98 Quarter Hours

Core Curriculum Requirements: 90 hours

Area I - Humanities: 20 hours	
English 107-108-109	15 hours
Humanities 232, 233 or 234	10 hours
Area II - Mathematics and Natural Sciences: 20 hours	
Mathematics 107	5 hours
Biology 123-124	10 hours
Physical Science 200	5 hours
Area III - Social Sciences: 20 hours	
History 101-102-202 or 203	15 hours
Political Science 200	5 hours
Area IV - Courses Appropriate to the Major: 30 hours	
Humanities 233 or 234	5 hours
Music 021, 041, 051	1 hour
Music 110	3 hours
Music 111-112-113	9 hours
Music 211-212-213	9 hours
Music 121 or 131 or 141	3 hours
Additional Requirements: 9 hours	
Physical Education	6 hours

EXIT FROM THE MUSIC PROGRAM

In addition to successfully completing all course work, each student must participate in one or more of the music activities (chorus or band) each academic quarter. All majors are required to attend all Departmental recitals, concerts, and workshops. Moreover, there will be student recitals and jury examinations each academic quarter. Each student must pass an exit examination.

SENIOR COLLEGE REQUIREMENTS: 95 Quarter hours

Major Requirements: 44 hours as specified

Music 124 or 134 or 144	3 hours
Music 221 or 231 or 241	3 hours
Music 224 or 234 or 244	3 hours
Music 321 or 331-332-333 or 341-342-343	3 hours
Music 307-311-314-315-316-407-411-412	24 hours
Music 324 or 334 or 344	3 hours
Music 421 or 431 or 441	1 hour
Music 424 or 434 or 444	1 hour

Academic Minor ..... 29 hours

Music Electives: Theory, Literature 9 to 15 hours

Specific Electives: 14 hours

Music 020 or 040	4 hours
French 141, German 151	10 hours

Minor in Voice:

*Music 040	1-2 hours
Music 111	3 hours
Music 131	1 hour
Music 144	1 hour
Music 244	1 hour
Music 306	3 hours
Music 314-315-316	9 hours
Music 341	1 hour
Music 344	1 hour
Music 400	2 hours

Minors in Vocal Performance are encouraged to continue with the choir for four years. In addition, each student must present a thirty minute recital (A major role in a musical or an opera may fulfill this requirement, with consent of advisor).

*Minor in Performance in Dance (Listed in Recreation Dept.):

Rec. 103	3 hours
Rec. 140	2 hours
Rec. 141	2 hours
Rec. 300	3 hours
Rec. 400	3 hours
Rec. 403	3 hours
Rec. 417	3 hours
Rec. 470	3 hours
Rec. 234	1 hour
Rec. 235	1 hour

Minors in Performance in Dance are expected to gain experience by working with theatre and other groups, as advised.

*Minor in Theatre (Courses listed in Humanities Dept.)

Eng. 201	3 hours
Eng. 202	2 hours
Eng. 203	3 hours
Eng. 308	3 hours
Eng. 406	5 hours
Eng. 411	5 hours
Eng. 412	3 hours
Eng. 413	5 hours

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* Six quarters of participation with drama is required.

DESCRIPTION OF COURSES

MUSIC (MUS)

Band and Choral Organizatons are open for elective credit to students; participation by music majors is required until completion of degree requirements. Students may elect to enroll for 1 or 2 credits.

020-032. Band. 1-2 credit hours.
Credit limited to 1 hour per quarter for music majors. *Fall, Winter, Spring.*

040. Choral Organization *Fall, Winter, Spring.*

046. Choral Organization *Fall, Winter, Spring*

048. Choral Organization *Fall, Winter, Spring*

050. Choral Organinzation *Fall, Winter, Spring*

052. Choral Organization *Fall, Winter, Spring*

047. Chamber Ensemble *Fall, Winter, Spring*

049. Chamber Ensemble *Fall, Winter, Spring*

051. Chamber Ensemble *Fall, Winter, Spring*

053. Chamber Ensemble *Fall, Winter, Spring*

055. Chamber Ensemble *Fall, Winter, Spring*

100. Fundamentals of Music. (3-0-3)
A course in rudiments of music designed for non-music majors.

110. Introduction to Music Literature. (3-0-3)
Survey course for the improvement of musical standards. Elements of music; composers and their contributions in different periods of musical development; acquaintance with orchestra and other instruments and voice ranges. Includes style developments in their historical settings. *Winter.*

111-112-113. Theory I (Ear-training and Sight-Singing). (1-4-3)
A course in notation, time signatures, major and minor scales, intervals, melodic and rhythmic problems, song reading and musical dictation. *Fall, Winter, Spring.*

***121-123. Fundamentals of Band Instruments. (1-0-1)**
Brass, Woodwind, and Percussion. Basic elements for the brass and woodwinds include embouchure control, breath control, time and key signature, scales, and phrasing. Percussion players are required to perfect single taps and are introduced to basic drum rudiments. *Fall, Winter, Spring.*

***124-126. Applied Major Area— Band Instruments. (1-0-1)**
These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled and periodic performance will be expected of the student during each year of training. *Fall, Winter, Spring.*

***131-133. Fundamentals of Piano. (1-0-1)**
These courses introduce techniques and basic musical knowledge such as notes, time signature, tempo markings, fingering, and phrasing. *Fall, Winter, Spring.*

***134-136. Applied Major Area— Piano. (1-0-1)**
These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each quarter. *Fall, Winter, Spring.*

***141-143. Fundamentals of Voice. (1-0-1)**
Vocal technique, diction, breathing, and posture are stressed and applied to songs with specific vocal problems. *Fall, Winter, Spring.* By permission of instructor only.

***144-146. Applied Major Area— Voice. (1-0-1)**
These courses are devoted to the development of proficiency in a specific area of applied music selected by the students with consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each quarter. *Fall, Winter, Spring.*

151. Class Guitar. (1-0-1)
Course designed for non-guitar majors. Emphasis given to techniques for accompaniment and recreational purposes. Open to all students.

161-162. Class Piano. (1-0-1)
Course designed for beginning piano students. Emphasis given to music reading and elementary techniques. Designed for non-music majors.

200. Survey of Music History. (3-0-3)
The history of music with emphasis on genres, style changes and cultural forces. Open to all students.

201. Church Music I: Music Worship. (2-0-2)
Biblical and philosophical bases of worship, the church year, various liturgies, music in the free church.

*These courses must be taken for three quarters until a total of three hours has been amassed.

202. Church Music II: Hymnody. (2-0-2)

Biblical and early Christian hymns, Latin Hymnody, the chorale, psalmnody, English and American hymnody, gospel song, comtemporary trends.

203. Church Music III: Children Choirs. (2-0-2)

The multiple choir system. Teaching religion through music. Music materials for children.

210. Afro-American Music. (3-0-3)

A cultural analysis of African folk music and its influence upon the development of spirituals, work songs, and jazz. Contributions of Afro-American music to both popular and classical traditions will be studied. *Fall, Winter, Spring. Elective.*

211-212-213. Theory II. (1-4-3)

A continuation of Theory I. Diatonic harmony, modulation, chromatic chords, modes, harmonizations from melody and bass, analysis of examples.

***221-223. Intermediate Band Instruments. (1-0-1)**

Brass, Woodwind and Percussion. A continuation of the basic elements and techniques. An introduction to solo and chamber music is made. Percussion players will commence study on other instruments such as snare, brass, and kettle drums. *Fall, Winter, Spring.*

***224-226. Applied Major Area-Band Instruments. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each quarter. *Fall, Winter, Spring.*

***231-233. Intermediate Piano. (1-0-1)**

A continuation of MUS 131-132-133. Such skills as memorization, sight-reading, harmonization, and transposition will be additional goals. *Fall, Winter, Spring.*

***234-236. Applied Major Area-Piano. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of his advisor. Regular lessons are scheduled, and periodic performances will be expected of the student during each year of his training. *Fall, Winter, Spring.*

***244-246. Applied Major Area-Voice. (1-0-1)**

These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with consent of his advisor. Regular lessons are scheduled and periodic performances will be expected of the student. *Fall, Winter, Spring.*

303. Chamber Music Literature. (3-0-3)

A survey of chamber music from 1750 to present. Alternate years.

*These courses must be taken for three quarters until a total of three hours has been amassed.

305. Choral Literature. (3-0-3)
The literature and performance practices of various periods, the history of choral music, study of representative works of English, Italian, German and American composers. *Spring.*

306. Choral Techniques. (3-0-3)
This course is designed to develop basic techniques for choral musicians. Meter pattern, preparatory beats, cueing, diction, blend, balance, and intonation are discussed. *Elective.*

307. Orchestration and Instrumentation. (3-0-3)
A study of the range, playing teechniques, and musical characteristics of all instruments with emphasis upon the orchestral score and the writing of music for instrumental ensembles. *Fall.*

309. Jazz Arranging. (3-0-3)
Chord structure and progressions, rhythms, voicing and instrumentation, scoring, arranging applied to jazz. Prerequisite: MUS 213. *Spring.*

310. Jazz Ensemble. (3-0-3)
This course is designed to expose the student to composers and arrangers of jazz, rock, and soul music. Improvisation is also included. *Fall, Winter, Spring. Elective.*

311. Theory III (Form and Analysis). (3-0-3)
A study of the construction of music from the eighteenth century to the present, including the harmonic and melodic analysis of pieces by major composers. *Spring.*

314-315-316. History and Literature of Music. (3-0-3)
A survey of the history of music from the beginning of the Christian era to the present. Emphasis is placed upon a study of representative works by major composers, together with a comprehensive analysis of style and musical development. *Fall, Winter, Spring.*

317. Symphonic Music Literaure. (3-0-3)
Orchestral music from the 18th century through the present. Alternate years.

***321-323. Advanced Band Instruments. (1-0-1)**
Brass, Woodwind, and Percussion. Emphasis is placed on building a music library of concent materials and methods. Wind instrument players will develop their ability to execute with facility and will study various percussion instruments of definite pitch. *Fall, Winter, Spring.*

***324-326. Applied Major Area— Band Instruments. (1-0-1)**
These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall, Winter, Spring.*

***331-333. Advanced Piano. (1-0-1)**
Students are expected to cover more advanced materials and display certain technical skills. The development of repertoire will be stressed. *Fall, Winter, Spring.*

*These courses must be taken for three quarters until a total of three hours has been amassed.

Applied Major Area— Piano. (1-0-1)
These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall, Winter, Spring.*

***341-343. Applied Voice. (1-0-1)**
The continuation of vocal technique studies in previous courses. Vocal forms in several languages will be introduced. *Fall, Winter, Spring.*

***344-346. Applied Major Area— Voice. (1-0-1)**
These courses are devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall, Winter, Spring.*

400. Vocal Pedagogy. (2-0-2)
Methods and materials for the studio.

401. Piano Pedagogy. (2-0-2)
Methods and materials for teaching individuals and classes of both children and adults. (Demonstration hours included.) *Spring.*

403. Keyboard Literature (1700-1850). (3-0-3)
Literature for stringed keyboard instruments from one of Bach and his contemporaries through early romantics. Historical, stylistic, formal and aesthetic features. *Fall.*

405. Piano Literature (1850 to present). (3-0-3)
Historical, stylistic features late romantic through present period, including works by Afro-American composers. *Winter.*

406. Opera and Art Song Literature. (3-0-3)
Listening with scores to representative opera and art song selections from various historical periods. *Alternate years.* Prerequisites: French and German

407. Conducting. (3-0-3)
A study of the techniques of conducting and interpretation of instrumental and choral literature. Prerequisite: All Music History. *Fall.*

409. Introduction to Musicology. (3-0-3)
Prerequisite: All music history, form and analysis, counterpoint. Reading research literature and studying examples of music from various epochs and cultures.

410. Modern Music. (3-0-3)
A study of compositions written since 1900 with particular emphasis upon recent developments in form, compositional techniques, and new media of musical expression. *Alternate years.*

411-412. Theory IV Counterpoint and Composition. (3-0-3)
Concurrence and dissonance; specie counterpoint in several parts, simple fugues, twentieth centruy linear techniques. *Fall, Winter.*

413. Seminar in Composition. (3-0-3)
Creative work in small and larger forms.

*These courses must be taken for three quarters until a total of three hours has been amassed.

421. Senior Band Instruments. (1-0-1)
Brass, Woodwind and Percussion. Continued emphasis is placed on building a music library, concert materials, and methods. Stress is placed on complete mastery in playing and in public performances. *Fall.*

424. Applied Major Area - Band Instruments. (1-0-1)
This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall.*

431. Senior Piano. (1-0-1)
Concert Repertoire and public performances will be stressed. *Fall.*

434. Applied Major Area - Piano. (1-0-2)
This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor. Regular lessons are scheduled, and periodic performances will be expected of the student. *Fall.*

441. Senior Voice. (1-0-1)
During this quarter, the student will concentrate primarily on perfecting his repertoire. *Fall.*

444. Applied Major Area— Voice. (1-0-1)
This course is devoted to the development of proficiency in a specific area of applied music selected by the student with the consent of advisor.

ART (ART)

103. Basic Design. (1-8-5)
An introduction to the core principles and elements of graphic and plastic design. Problems and discussion evolve around two and three dimensional design. *Fall.*

108. Drawing. (0-8-4)
The basic elements of drawing—form, contour, gesture, perspective, proportion, and texture—are taught through the use of charcoal, conte crayon, pencil, pen and ink, and wash. Drawing from models, still life and landscape gives the student a sound knowledge of drawing and construction. Prerequisite: ART 103 or permission of instructor. *Winter.*

109. Drawing II. (0-8-4)
Portrait and figure drawing, study of anatomy as to proportion and balance of the human figure. Drawing from the live model with an emphasis on structure, interpretation and movement. The course develops accurate observations, the understanding of the human figure, and an effective use of drawing media. Prerequisite: 108 or permission of instructor. *Spring.*

200. Lettering. 4 Hours (Nine contact hours) (0-9-4)
Principles of lettering as used in Printing today. Study of typography in relation to lettering and design. Study of classic and modern letter forms with emphasis on design. Practice in Roman, Gothic and script alphabets.

201. Illustration I. 4 Hours (nine contact hours) (0-9-4)

Exploration with drawing, painting and visual media of illustrative techniques. Study of spot drawing in black and white and black half tones used for reporduction material. Drawing skills are perfected. Prerequisite: Drawing I, II, or permission of instructor.

202. Illustration II. 4 Hours (nine contact hours) (0-9-4)

Continued experimentation of illustrative techniques and development of personal styles. Two and four color study of drawings for reporduction in magazines and newspapers. Drawing skills are perfected. Prerequisite: Illustration I.

216. Crafts I. (0-6-3)

Experiences in significant craft materials: wood, fabrics, fibers and metal. Students will learn elementary on and off loom weaving techniques, fabric printing and painting, jewelry and metal projects, macrame, and techniques of wood crafts. Prerequisite: ART 108. *Fall.*

217. Crafts II. (0-6-3)

A continuation of ART 216. *Winter or Spring.*

238. Ceramics I. (1-4-3)

An initial study of ceramic processes such as modeling, handbuilding, stacking, firing, glazing, and decorating ceramic forms. *Fall.*

239. Ceramics II. (0-6-3)

A continuation of ART 238. Emphasis on deisgn, decorating, and basic wheel techniques. *Winter.*

240. Ceramics III. (1-8-5)

A study of ceramic materials and processes used in designing, constructing, glazing and firing earthware and stoneware clays. There will be opportunities to do advanced hand-building and wheel work, and to build small ceramic sculpture. *Spring.*

300. Graphic Design I. 4 Hours (nine contact hours) (0-9-4)

Introduction to the use of various drawing instruments, techniques, and graphic media including technical and perspective drawing. Prerequisite: Drawing I, II or permission of instructor.

301. Graphic Design II. 4 Hours (nine contact hours) (0-9-4)

A continued investigatoin in graphic art tools and materials, emphasizing drawing, illustration and painting techniques. Prerequisite: Graphic Design I.

302. Photography I. (2-4-5)

An introductory course which emphasizes the basic principles and practices of black and white photography, including camera work and darkroom techniques. Special assignments and evaluations. 3 hours credit.

303. Photography II. (2-4-5)

A continuation of principles and techniques introduced in Photography I, with emphasis on the application of and refinement of printing techniques. Special assignments and evaluations. Prerequisite: Photography I. 3 hours credit.

322. Painting I. (0-10-5)

An introduction to painting media and techniques of oil, acrylic or watercolor. *Winter.*

323. Painting II. (0-10-5)

A continuation of Painting I. Emphasis on advanced techniques, easel and mural designs. *Spring.*

333. Sculpture. (0-10-5)

A study of three-dimensional forms and the limitations of sculptural media. Experiences include work in clay, wood, stone, metal, and plaster. *Spring.*

350. History of Art I. (3-0-3)

A chronological perspective of art history from pre-historic times to the Renaissance. *Fall.*

351. History of Art II. (3-0-3)

A chronological perspective of art history from the Renaissance to the end of the nineteenth century. *Winter.*

352. History of Art III. (3-0-3)

A chronological perspective of art history of the twentieth century including a study of the major achievements and expressional trends in architecture, painting, sculpture and graphic art. *Spring.*

430. Printmaking I. (1-6-4)

Designed to provide creative experiences in the reproductive arts. Experiences evolve around monotype and linoleum, also initial experiences in advanced forms of printmaking, such as lithographs. Discussion on survey of world printmakers. *Fall.*

431. Printmaking II. (1-8-5)

This is a comprehensive course designed explicitly for printmaking in the community. Experiences will be offered in relief and intaglio prints, paperplate lithograph, stencil and fabric printing. *Winter.*

432. Printmaking III. (0-10-5)

This course is designed to explore new techniques, ideas, and combinations in Printmaking. It emphasizes innovations such as collagraphs, woodcuts on textiles, silkscreen, and combinations of woodcuts or silkscreen with etchings or collagraph. *Spring. Elective.*

SPEECH (SPE)

201. (ENG) Principles of Speech. (3-0-3)

Study and pracatice in speech preparation and delivery. Elements of speech production, types of speeches, and oral interpretation are emphasized. *Winter, Spring.*

202. Voice and Diction. (2-0-2)

Study and practice in effective voice production, with emphasis upon breath control, posture, articulation and pronunciation. *Fall.*

203. (ENG) Oral Interpretation. (3-0-3)

Intensive study and practice in the oral interpretation of poetry and prose. Emphasis on both individual and group activity. *Spring.*

THEATRE (THE)

308. Elementary Acting. (3-3-3)

Study and practice in the fundamentals of acting technique based on play and character analyses. The importance of voice, posture, gesture, and movement in theatrical expressiveness will be emphasized, using speeches and short scenes from the world's best dramas. *Fall, Spring.*

406. (ENG) Introduction to Drama. (5-0-5)

Chronological study of drama, with emphasis on selected writers and their works. Consent of instructor. *Spring.*

411. Play Production. (5-0-5)

A critical study of the types of plays with general principles of directing for each type; editing the script; the fundamentals of casting, lighting, makeup; etc. Prerequisite: ENG 109. *Winter.*

412. Play Auditioning and Direction. (3-0-3)

Emphasis upon current practices in auditioning for theatre companies and selected casting, directing, and staging the play. Students may use either their own works or an established one-act play. Prerequisite: ENG 411. *Spring, alternate years.*

DEPARTMENT OF HUMANITIES

LUETTA C. MILLEDGE, Head

Juanita J. Adams
Russell D. Chambers
Oscar C. Daub
Charles J. Elmore
Norman B. Elmore
Janie Fowles
Carol P. Gordon, Manager, WHCJ
Novella C. Holmes
Drusilla Ice
Yvonne H. Mathis
George J. O'Neill, Jr.
Linda Peerson
David A. Richardson
Gloria Shearin
Robert L. Stevenson
(Interdepartmental)
Teresa Styles
Gina P. Taylor, Laboratory Technician
Terry Thompson
Frank D. Williams
Gloria Blalock, Secretary

N.B. Alexander Stoddart and William A. Wood, nationally recognized media experts, are frequently employed as part-time instructors in mass communications.

The Department of Humanities offers courses leading to the baccalaureate degree (B.A.) in two areas: English language and literature and mass communications. Minor programs in English, mass communications, and religious and philosophical studies are available. The Department promotes an extensive, interdisciplinary approach that encourages investigation in cognate areas and allows for individualization of interests and pursuit and prepares the student for graduate study and career development.

In a world of rapidly increasing technological sophistication, the urgent issues confronting individuals and societies are issues of human values and the relationships betwen what human beings can do and what they ought, or ought not, to do. The ultimate aim of the Department of Humanities is to develop in each student an awareness and appreciation of his/her personal identity and social heritage. Such awareness and appreciation should cultivate in the student a quality of mind marked by analytical, constructive, imaginative, and creative inquiry and thought. To foster the development of such intellectual and humane capabilities, the Department helps the student by promoting: (1) oral and written proficiency in English, including an appreciation for linguistic plurality; (2) critical knowledge and consequent appreciation of the literary and performing arts; (3) affective, aesthetic, and intellectual flexibility; (4) analytical awareness of language uses in varied settings; (5) advocacy of humane spirit and values; and (6) a spirit of cooperation with community persons and groups working toward similar humanistic and social goals.

The Department of Humanities provides opportunities for the study and analysis of language, literature, integrated humanities, mass media, philosophy, and religion. These studies and analyses are intended to motivate the student to acquire a more profound understanding and appreciation of the humane spirit, to enliven imagination and inventiveness, to expand aesthetic horizons, and to probe and cultivate individual and social identity. Additionally, the Department encourages the student to utilize resources and opportunities of the proximate urban area as well as to share with it his/her interests, talents, and achievement. The student engaging in these activities and accomplishing these purposes may be expected to become an intellectually aware, sensitive, flexible, effective citizen, equipped to contribute to society through the maintenance of humane perspectives and values.

PLAN OF STUDY

FRESHMAN ENGLISH

Entering freshman students who meet the requirements of regular admission are placed in English 107.

Applicants for admission who do not meet the requirements for regular admission must take the Collegiate Placement Examination (CPE). On the basis of their performance on the English section of this test (including a writing sample), these students are assigned to English 107 or to English courses in the Developmental Studies Department.

THE ENGLISH LANGUAGE AND LITERATURE MAJOR

A student majoring in English language and literature must include two period courses (301 or 303 or 305; 306 or 307); two courses in American literature (220, 221), one course in world literature (331), three seminars in English (450-451-452); two courses in linguistics (321, 322); and one author course (401).

A student majoring in English language and literature will complete at least fifty-four quarter hours in language, composition, literature, and speech, in addition to freshman English.

THE ENGLISH LANGUAGE AND LITERATURE MINOR

A minor in English consists of a minimum of twenty-five hours *beyond* English 109. It must include one course in American literature, one course in English literature, one genre or author, and one seminar in English.

REQUIRED EXAMINATIONS

1. Each candidate for the baccalaureate degree in the Department of Humanities is required to pass the reading and essay writing components of the Regents' Testing Program (RTP).
2. Senior English majors are required to take the Advanced Test in Literature of the Graduate Record Examination (GRE).
3. Senior mass communications majors must take a departmental examination.

ADVANCED PLACEMENT AND CREDIT BY EXAMINATION

A student who has earned the grade of B or above in Advanced Placement English in high school, 4 or above on the advanced Placement Test, or 610/50 on the English CLEP may be exempted from English 107 with credit.

A student who earned the grade of B or above in Advanced Placement Language (French, German, Spanish), or 5 or above on the Advanced Placement Test may be exempted from the first course in language (French 141, German 151, Spanish 161).

CURRICULUM FOR MAJORS IN ENGLISH LANGUAGE AND LITERATURE

JUNIOR COLLEGE CURRICULUM

Core Curriculum Requirements: 90 quarter hours:

Area I— Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II— Mathematics and Natural Science: 20 hours required

Mathematics 107, 108, 110	5-10 hours
Ten-hour laboratory sequence from the following:	
Biology 123-124	
Chemistry 101-102	
Physics 201-202 or 201-203	10 hours
Physical Science 203-204	5-10 hours

Area III— Social Science: 20 hours required

History 202 or 203	5 hours
Political Science 200	5 hours
History 101	5 hours
History 102, Social Science 111 or PSY 201	5 hours

Area IV— Courses Appropriate to the Major: 30 hours required

English 204	5 hours
English 210 or 211	5 hours
Humanities 233	5 hours
A sequence from the following:	
French 141-142-143	
German 151-152-153	
Spanish 161-162-163	15 hours

Additional Reqirements:

Physical Education	6 hours
General Education 100	2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 52 hours as specified

English 210 (or 211) - 220-221-301 (or 303 or 305) - 306 (or 307) 321-322-331-401-413-450-451-452	47 hours
Philosophical Studies	5 hours
English Electives (including Humanities 234)	12 hours
General Electives	8 hours
Minor Field	25 hours

CURRICULA FOR MAJORS IN MASS COMMUNICATIONS

The Mass Communications Degree Program offers the student who is interested in a professional communications career a unique opportunity to obtain extraordinary career flexibility.

The program which leads to the B.A. degree, allows the student the option of concentrating in one of the following areas: news-editorial (newspapers and magazines); electronic media (radio and television), media management, and the performing arts.

Enriched knowledge and understanding of the nature, circumstances, and aspirations of people are derived from historical, literary, social, philosophical, and theological studies, which are traditionally called humanistic. Therefore, the mass communications program utilizes these disciplines to assist students in the development of basic insights into human nature and in the acquisition of humanistic principles upon which the media must rest.

Emphasis is also placed on the importance of acquiring valuable practical experience. Students majoring in mass communications are required to obtain "hands-on" experience by working at one of the communications facilities on campus (Office of Public Relations, the Media Resources Center, or at WHCJ-FM Educational Radio Station), or at a radio or t.v. station, or newspaper within the city of Savannah. Internships in advertising, public relations, and public information are also available. After obtaining permission from the internship coordinator, a student may opt to do an internship with a communications organization outside of the city of Savannah. A student who has acquired substantial experience (minimum of two years) at an approved media organization may apply to waive the internship requirement without credit. Application forms are available in the office of the program director.

Additionally, students are provided with the opportunity to further enhance their skills by working as volunteers at WHCJ-FM Radio, and by working on the staff of the College newspaper, the Tiger's Roar.

Every student enrolled in the program is required to take six mass communications core courses: COM 110, Introduction to Mass Communications; COM 200, Basic News Writing; ENG 201, Principles of Speech; COM 215, Writing for Radio and T.V.; COM 312, Public Relations Practices, and COM 492, Professional Media Internship.

ACADEMIC REQUIREMENTS FOR THE BACCALAUREATE DEGREE IN MASS COMMUNICATIONS

1. Students enrolled in the Mass Communications Degree Progrm will be assigned an academic advisor by the head of the department. Each student is required to be counseled by an advisor prior to registering for a course.

2. A student must complete all Area I - IV courses prior to enrolling in upper level courses, or, a student, after counseling with his/her academic advisor, may concurrently enroll in Area IV courses and upper division courses.

3. A student must earn a minimum grade of "C" in all prerequisite courses that require a grade of "C" or higher prior to registering for the upper level course.

4. A student must earn a minimum grade of "C" in all major courses and all courses that are appropriate to the major. Generally, the courses that are "appropriate to the major" are listed under Area IV courses.

All Mass Communications majors are required to take the MASS COMMUNICATIONS CORE, comprised of these six courses:

COM 110 Introduction to Mass Communications	(3-0-3)
COM 200 Basic Newswriting	(5-0-5)
ENG 201 Principles of Speech	(3-0-3)
COM 215 Writing for Radio and T.V. (Prerequisite: COM 200)	(5-0-5)
COM 312 Public Relations Practices	(5-0-5)
COM 492 Professional Media Internship	(0-10-5)

CORE CURRICULUM REQUIREMENTS: 99 hours

(ALL OPTIONS)

Area I— Humanities: 20 hours

English 107-108-109	15 hours
Humanities 232	5 hours

Area II— Mathematics and Natural Sciences: 20 hours

required Mathematics 107, 108, 210	5-10 hours

Ten-hour laboratory sequence from the following:

Biology 123-124
or
Chemistry 101-102

Environmental Studies 201	5 hours
and	
Biology 204	2 hours
or	
Earth Science 221	5 hours
or	
Physical Science 203	5 hours
or	
Physics 201	5 hours

Area III— Social Science: 20 hours

History 101	5 hours
History 102	5 hours
History 203	5 hours
Political Science 200	5 hours

Area IV— Courses Appropriate to the Major: 30 hours required

Social Science III	5 hours
Communications 110	3 hours
Communications 200	5 hours
English 201	3 hours

A sequence from the following: 15 hours

French 141-142-143
German 151-152-153
Spanish 161-162-163

Additional Requirements:

Physical Education	6 hours
General Education 101	2 hours

SENIOR CURRICULUM

OPTION I— CONCENTRATION IN ELECTRONIC MEDIA

Major Requirements: 95 hours as specified

English 204, Communications 215, 216, 245, 312, 353, 354, 375, 462, 491, 492	55 hours
Mass Communications Electives	5 hours
General Electives	5 hours
Philosophical Studies 200	5 hours
Minor Field	25 hours
(Suggested areas: Political Science, International Studies, Urban Studies, Criminal Justice, Psychology, English, Art, Music, Electronics-Physics)	

OPTION II— CONCENTRATION IN NEWS-EDITORIAL

Major Requirements: 95 hours as specified

English 204, Communicatons 213, 215, 216, 240, 310, 311, 312, 320, 375, 491, 492	55 hours
Mass Communicatons Electives	5 hours
General Electives	5 hours
Philosophical Studies 200	5 hours
Minor Field	25 hours
(Suggested areas: English, Art, Social Sciences, Music, Science)	

OPTION III— CONCENTRATION IN PERFORMING ARTS

Major Requirements: 95 hours as specified

Communications 215, 312, 332, 470, 491, 492, 497, 498 English 202, 203, 308, 406, 411, 413, 417	51 hours
Mass Communications Electives	9 hours
General Electives	5 hours
Philosophical Studies 200	5 hours
Minor Field	25 hours
(Suggested areas: Art, Music, Psychology, English, Religious and Philosophical Studies, Recreation and Parks Administration)	

OPTION IV— CONCENTRATION IN MEDIA MANAGEMENT

Major Requirements: 95 hours as specified

English 204 Economics 201, 202 Business Administration 360, 403, 462 Communications 215, 312, 380, 463, 491, 492	69 hours
Mass Communications Electives	10 hours
Minor Field	25 hours
(Suggested areas: Business Administration Economics, Management, Psychology)	

THE COMMUNICATIONS MINOR

All minors are required to take COM 110, Introduction to Mass Communications.

Students are advised to take the following courses:

COM 200 Fundamentals of News Writing	5 hours
ENG 201 Principles of Speech	3 hours
ENG/SP 413 Advanced Speech	5 hours
COM 215 Writing for Radio and T.V.	
COM 215 (COM 200: Prerequisite	5 hours
COM 312 Public Relations Practices	5 hours
Any 300 or 400 level Mass Communications	
elective	3 hours
Total hours	26 hours

THE RELIGIOUS AND PHILOSOPHICAL STUDIES MINOR

The minor in Religious and Philosophical Studies is designed to provide the student with a broad humanistic background in religion and philosophy and to offer the student expanded opportunities to pursue liberal studies.

In addition to providing courses for a minor and for electives, the program offers pre-professional preparation for graduate study in religion or theology.

The minor consists of twenty-eight to twenty-nine (28-29) hours of course work.

COURSE DESCRIPTIONS

HUMANITIES

In all departmental courses with designated prerequisite, satisfactory completion ("C" or above) of prerequisite course is required.

200. Topics in the Humanities. (2-0-2 to 5-0-5)
Selected topics in one or more of these areas: language, literature, mass communications, religion, and philosophy. Prerequisite: ENG 109. *Upon demand.*

232. Introduction to the Humanities. (5-0-5)
An interdisciplinary survey of the art, architecture, literature and music of ancient Africa, of Graeco-Roman culture, of the Judeo-Christian tradition and the Middle Ages. Prerequisite: ENG 109. *All quarters.*

233. Introduction to the Humanities. (5-0-5)
An interdisciplinary survey of the art, architecture, literature and music of the Renaissance, Neo-classical, and Romantic periods. Prerequisite: ENG 109. *All quarters.*

234. Introduction to the Humanities. (5-0-5)
An interdisciplinary survey of the art, architecture, literature and music of the twentieth century. Prerequisite: ENG 109. *Spring quarter.*

301. World Religions. (5-0-5)
An introduction to the religions of the world, with attention to milieu and emphasis upon the irenic approach. *Winter.*

ENGLISH

092. Writing Skills. (5-0-5)
Intensive study and practice in writing. Designed for students who fail essay section of the *Regents'* Testing Program. Passing contingent upon passing RTP. Institutional credit. *All quarters.*

093. Reading Skills. (5-0-5)
Intensive study and practice in reading. Designed for students who fail the reading section of the *Regents'* Testing Program. Passing contingent upon passing RTP. Institutional credit. *All quarters.*

107. English Communicative Skills. (5-0-5)
Designed to develop skills in reading, writing, and speaking. Minimum passing grade is C. *All quarters.*

107FS. English Communicative Skills. (5-0-5)
For students whose native language is not English. Designed to develop skills in reading, writing, and speaking. Minimum passing grade is C. *Fall.*

108. English Communicative Skills. (5-0-5)
Designed to develop competence in the English communicative skills, with particular emphasis upon critical thinking and writing. Minimum passing grade is C. Prerequisite: English 107 or English 107FS. *All quarters.*

109. English Communicative Skills (5-0-5)
Designed to develop competence in the English communicative skills, with particular emphasis upon research procedures and writing. Minimum passing grade is C. Prerequisite: English 108. *All quarters.*[1]

201. (Also SPE 201) Principles of Speech. (3-0-3)
Study and practice in speech preparation and delivery. Elements of speech production, types of speeches, and oral interpretation are emphasized. *Winter, Spring.*

204. Advanced Composition. (5-0-5)
Intensive study of the theory and practice in writing the basic composition forms. Prerequisite: ENG 109. *Fall.*

210. Introduction to English Literature. (5-0-5)
A survey of English writing from Beowulf to the Romantic Period. Prerequisite: ENG 109. *Fall.*

211. Introduction to English Literature. (5-0-5)
A survey of English writing from the Romantic Period to the Contemporary Period. Prerequisite: ENG 109. *Winter, alternate years.*

[1]Unless otherwise indicated, satisfactory completion of English 109 is prerequisite to enrollment in any course numbered 200 or above.

220. American Literature from the Colonial Period to 1865. (5-0-5)

A study of the main currents of thought and expression in America before 1865. Prerequisite: ENG 109. *Spring.*

221. American Literature Since 1865. (5-0-5)

A study of the main currents in literary thought and expression in America from 1965 to the present. Prerequisite: ENG 109. *Fall, alternate years.*

301. English Literature of the Seventeenth Century. (5-0-5)

A survey of the important writers— their styles, subject matter and philosophies. Special emphasis upon the weeks of Milton, Dryden, and Bacon. Prerequisite: ENG 210 or 211, 204. *Winter, alternate years.*

303. The English Romantic Movement. (5-0-5)

The genesis of the Romantic theory and the beginning of the Romantic revolt in English; significant literary aspects of the Movement as shown in the works of Wordsworth, Coleridge, Byron, Shelley, and Keats; in the prose writing of Hazlitt, DeQuincey, Hunt, Lamb and Scott. Prerequisite: ENG 210 or 211, 204. *Winter, Alternate years..*

305. Victorian Prose and Poetry. (5-0-5)

An analytical study of the age of Queen Victoria of England; literature of the period as represented by the works of Tennyson, the Brownings, Carlyle, Arnold, Ruskin, and Meredith. Prerequisite: ENG 210 or 211, 204. *Winter, alternate years.*

306. Contemporary Prose and Poetry. (5-0-5)

A survey of the major trends and themes in world literature, including American, from World War I to the mid-twentieth century. Prerequisite: ENG 210 or 211, 220 or 221, and 204 or 207. *Spring.*

307. Major Authors Since 1950. (5-0-5)

A survey of major trends and works in world literature, including American, of recent times. Prerequisite: same as for ENG 306. *Spring, alternate years.*

315. West African Literature. (3-0-3)

An introduction to the Literature of West Africa, with emphasis upon the oral tradition and its influence on contemporary Black American literature. *Winter, alternate years.*

316. The Poetry of the Black American. (3-0-3)

An intensive study of the poetic contribution of Black Americans, with an examination of social and other forces which have contributed to its development. *Spring, alternate years.*

321. Introduction to Language Study. (3-0-3)

A general survey of linguistic science with emphasis on phonetics, morphology, syntax, and socio-linguistics. Prerequisite: ENG 109. *Fall, Spring.*

322. The History of the English Language. (3-0-3)

A study of the historico-comparative method, linguistic change, and the history of the English language, with extensive treatment of the development of English in America. Prerequisite: ENG 321. *Winter, Summer.*

331. Literary Analysis and Criticism. (3-0-3)

For English majors. A study of masterpeices other than English and American. *Fall, alternate years.*

333. Creative Writing. (3-0-3)

Instruction and practice in techniques of writing poetry, familiar essay, short story, and drama. Prerequisite: ENG 109. Consent of instructor. *Spring, alternate years.*

341. The Metrical Tale and Romance. (3-0-3)

A study of the medieval narrative with particular emphasis upon Chaucer's poetry. *Winter, alternate years.*

342. The Epic Tradition. (3-0-3)

A study of the epic from classical antiquity to Milton. *Spring, alternate years.*

401. Shakespeare. (5-0-5)

Background, home life, and parentage of Shakespeare; Elizabethan theatrical traditions and conventions. Opportunity for reading and critical discussion of the great tragedies, comedies, and historical plays of the author. Consent of instructor. *Fall.*

403. Criticism. (3-0-3)

Analysis and criticism of recent English and American poetry. Emphasis on the changing ideas of poetry in relation to the persistent, as well as new, forms and techniques. Prerequisite: ENG 210 or 211, 331 or 332. *Spring, alternate years.*

405. The English Novel. (5-0-5)

An evaluative study of works of great English novelists. Rise and development of the English novel, together with an analytical appraisal of four elements—setting, character, plot, and philosophy. Readings and discussion of various types, with emphasis upon the variety of methods by which the novel interprets life. Consent of the instructor. *Winter, Alternate years.*

406. (Also THE 406.) Introduction to Drama. (5-0-5)

Chronological study of drama, with emphasis on selected writers and their works. Consent of instructor. *Spring.*

413. (Also SPE 413) Advanced Speech. (5-0-5)

Emphasizes self-improvement in all phases of diction and delivery; provides experience in various speaking situations. Consent of instructor. Winter, alternate years.

416. Black Drama. (3-0-3)

An examination of the contributions of Blacks to American drama. Traces the development of Black theater from minstrels to modern theater workshops. *Spring, alternate years.*

417. The Novel of the Black American. (3-0-3)

A critical study of the novels created by Blacks in America, with analysis of the literary aspects and racial themes of these novels. *Spring, alternate years.*

450-451-452. Seminar in English. (1-0-1)

Special problems in English. Reports and research techniques. Prerequisite: Junior standing. Three courses required of all majors in either their junior or senior years. *Fall, Winter, Spring.*

MASS COMMUNICATIONS

110. Introduction to Mass Communications. (3-0-3)

Designed to acquaint the beginning journalist with the fundamental elements of the mass media. *Fall, Spring.*

142. Newspaper Production. (1-2-2)

Designed to give students instruction and practice in the skills and techniques involved in newspaper production. Students will work on the staff of the College newspaper. May earn up to six credit hours. All quarters.

200. Fundamentals of Newswriting. (5-0-5)

Major emphasis on writing various types of news stories under the close supervision of an instructor. Prerequisite: ENG 109. *Fall, Spring.*

213. History of Journalism. (3-0-3)

A historical survey of the principal developments in journalism from the eighteenth through the twentieth centuries. *Spring, alternate years.*

214. Contemporary American Newspapers. (3-0-3)

A detailed study of representative contemporary American newspapers and magazines. Prerequisite: COM 213. *Winter.*

215. Writing for Radio and Television. (5-0-5)

A study of the basic characteristics of writing for radio and television. Prerequisite: COM. 200. *Fall.*

216. Advanced Writing for Radio and Television. (5-0-5)

Theory and practice in the fundamentals of gathering and writing news for broadcast. Continuation of COM 215 with emphasis on more cmplex types of reporting. Prerequisite: COM 215. *Winter.*

240. Photo-Journalism. (5-0-5)

Course includes instruction in taking, developing and printing pictures for news purposes. Student must have 35mm camera. *Spring.*

245. Radio and Television Production. (5-0-5)

Introduction to television and radio station equipment and pre-production elements necessary to produce a television show. Prerequisite: COM 215. *Fall.*

310. Advanced Reporting. (5-0-5)

Instruction and practice in reporting all areas of public affairs. Includes ethics of journalism, law of libel, right of privacy, fair comment and criticism, privileged matter, etc. Prerequisite: COM 200. *Spring.*

311. Feature Writing. (5-0-5)

Designed to further develop a student's skill in researching, organizing, and writing news features and human interest stories. Prerequisite: COM 200. *Spring, alternate years.*

312. Public Relations Practices. (5-0-5)

Basic theory and application of media in the planning and developing of company, community, organizational, and institutional programs. Prerequisite: COM 200. *Spring.*

320. Copy Editing. (5-0-5)

Designed to give students training in the theory and practice of copy editing and headline writing. Simulated local news copy and wire service stories are used. Prerequisite: COM 200. *Spring.*

351. The Mass Media and Popular Culture. (3-0-3)

Investigation and evaluation of the mass media and popular arts and their societal impact. *Winter.*

353. Advanced Radio Production. (5-0-5)

Advanced instruction and practice in radio production, including directing, programming and equipment. Prerequisite: COM 245. *Spring.*

354. Advanced Television Production. (5-0-5)

Advanced instruction and practice in television production, including directing, programming, and equipment. Prerequisite: COM. 245. *Winter.*

356. Media Art. (3-0-3)

Study and practice in basic design skills related to graphic and photographic formats for television, film, and slide productions. *Winter, alternate years.*

357. Newspaper Production. (2-4-5)

Copy editing, headline writing and newspaper layout. Emphasis upon the principles and skills involved in producing a newspaper by the off-set or coldtype method. (prior approval of instructor).

360. Publications Preparation and Production. (5-0-5)

Directed individual work in the preparation and production of copy from newspapers, magazines, brochures, booklets, catalogs, flyers and other printed peices. Involves writing, editing, photography, typography, basic layout, final design and reproduction.

361. The Black Press. (5-0-5)

The course provides an historical and analytical survey of the Black press in America. *Spring, alternate years.*

375. Communications Law. (5-0-5)

Study of the laws affecting American media, including the concept of freedom of speech and press, federal regulatory agencies, libel, slander, copyright and invasion of privacy. *Spring.*

380. Media Management. (5-0-5)

Analyzes the functions and responsibilities of the various non-news department managers in television and radio stations, and newspapers, with emphasis on the market coverage of the media, profitability, overall programming, and budget; analysis of department administration and operation, and relations with regulatory agencies such as the FCC and NAB codes and standards. *Fall.*

450. Independent Study. (5-0-5)

Directed individual work under the various members of the faculty.

451. Language and Persuasion. (5-0-5)

Principles and practices of classical, tribal African, 18th Century American, and contemporary Black rhetoric, including language of politics, religion, and other significant modes. *Winter, alternate years.*

460. The School Press. (5-0-5)

Emphasis upon college and high school publications with opportunities for professional evaluation and guidance. *Summer.*

462. The Documentary. (3-0-3)

A survey and analysis of the documentary format employed in film productions, 1945-1970's preparation and production of mini-documentary. Prerequisites: COM 216, COM 354. *Spring.*

463. Seminar/Organizational Communication. (5-0-5)

Indepth analysis of a specific organization (such as an institution, educational facility, business, etc.) including a study of the communication flow. Prerequisite: COM 200.

470. Speech for Radio and Television. (3-0-3)

The course is designed to teach the basic techniques of radio and television broadcasting. Emphasis on newscasting, advertising, sportcasting, and announcing formats. *Fall.*

471. Sound Mixing and Recording. (0-6-3)

A laboratory study of the technique of sound mixing and the principles of audiotape recording and editing.

491. On-Campus Media Internship. (2-8-5)

Student will intern with an on-campus agency involved in the medium of the student's concentration. Prerequisite: COM 200 and permission of instructor.

492. Professional Media Internship. (0-10-5)

Open only to juniors and seniors majoring in mass communications; work with various professional media in the Savannah Area. Prerequisite: COM 200 and 491, permission of instructor.

494. Art and Politics of Video and Film. (3-0-3)

Survey of the aesthetics and political elements of International Film produced during the 1950's-1970's.

495. Media Cooperative Program. (0-10-5)

Seniors are allowed to work full-time off campus (with college supervision) for a television or radio station, or in public relations, advertising, or with a newspaper. Total credit limited to 15 hours. Permission of instructor.

496. Technical Writing. (5-0-5)

Expository writing on technical subjects placing emphasis on writing formal and informal reports, resumes, letters and description of materials and equipment; special attention to developing, drafting, and presenting government grants and foundation requests. Specific course projects are determined after consultation with directors of programs requiring technical writing skills. Prerequisite: COM 310. *Winter.*

497. Modern and Contemporary Drama. (3-0-3)

Reading and discussing plays from the modern era. Study of production techniques.

498. Acting for Radio and Television. (5-0-5)

Study and practice in the fundamentals of radio and T.V. acting. Prerequisite: ENG 308. *Winter.*

COGNATE AREAS

Please refer to appropriate section of *Bulletin* for course descriptions.

BUSINESS ADMINISTRATION (BAD)

BAD 331— Business and Economic Statistics I
BAD 340— Principles of Marketing
BAD 341— Marketing-Management
BAD 360— Business Organizations and Management
BAD 403— Advertising
BAD 409— Administative Practice and Internship
BAD 410— Administrative Practice and Internship
BAD 412— Personnel Management
BAD 415— Marketing Research
BAD 462— Human Relations in Organization

ECONOMICS (EC0)

ECO 201— Principles of Macro-Economics
ECO 202— Principles of Micro-Economics

ENGLISH (ENG)

ENG 201— Principles of Speech
ENG 202— Voice and Diction
ENG 203— Oral Interpretation
ENG 204— Advanced Composition
ENG 210— Introduction to English Literature
ENG 308— Elementary Acting
ENG 332— Theatrical Criticism
ENG 333— Creative Writing
ENG 406— Introduction to Drama
ENG 411— Play Production
ENG 412— Play Auditioning and Direction
ENG 413— Advanced Speech

RECREATION AND PARKS ADMINISTRATION (REC, PED)

PED 130— Body Mechanics
PED 131— Body Mechanics
PED 154— Modern Dance Techniques
PED 155— Modern Dance Performance
PED 156— Modern Dance Creation and Interpretation
PED 159— Aerobic Dancing
REC 228— Theatre Dance
REC 229— Afro-Carribean Dance
REC 345— Methods In Recreational Dance
REC 350— Dance Seminar

SOCIAL AND BEHAVIORAL SCIENCES (SOS) (PCS)

PCS 380— Politics of the Cinema
SOS 400— Research Methods

RELIGIOUS AND PHILOSOPHICAL STUDIES (RPS)

137. Basic Religious and Philosophical Thought. (2-0-2)
A special introductory course offered primarily for persons in a continuing education or similar status. Not open to minors within the area.

200. Introduction to Philosophy. (5-0-5)
The basic survey course of the field of philosophy. An attempt is made to introduce the student to logic, ethics, ontology, religion, etc., as a basis for additional study in philosophy. This course is required for minors.

201. Psychology of Religion. (3-0-3)
Explores the junction of religion in a person's life. Case studies are made and religious institutional visitations are required. This course is required for all minors.

202. Philosophy of Love. (3-0-3)
Studies the nature of love, using philosophical as well as psychological source materials.

203. Critical and Creative Thinking (2-0-2)
Techniques for improving critical and creative thinking.

303. Understanding Old Testament Religion. (5-0-5)
Literature and ethics of the Old Testament, as a history of the early Jewish people and as a background of Christianity. *Spring, alternate years.*

304. Understanding New Testament Religion. (3-0-3)
A study of the teachings of Jesus and the history of the early Christian church as revealed in the literature of the New Testament. *Winter, alternate years.*

305. Understanding Buddhism and Hinduism. (3-0-3)
Emphasis will be placed upon Theravada Buddhist philosophy, literature and monastic life in India, China, Tibet, and Japan. Hinduism will be viewed both as a major religion and as a relative to Buddhism. *Fall, alternate years.*

306. Introduction to Islam. (2-0-2)
Emphasizes the history and growth of Islam and its status in today's world.

307. Religion and The Black Experience in America. (3-0-3)
Explores the historic roles of religion in the life of Black Americans.

308. Literature of the Bible.
Surveys for appreciation purposes the various forms of literature in the Old and New Testaments and examines some of the effects this literature has had upon man's attempt to communicate ideas concerning his spiritual life.

309. Introduction to Christianity. (3-0-3)
Emphasizes the influence of the environment into which Christianity was born and the subsequent interplay between history and religion up to the present time.

310. Introduction to Judaism. (2-0-2)
The Jewish faith, its belief and practices, are carefully studied in this course. When taught by a visiting rabbi, the instructor is sponsored by the Jewish Chautauqua Society.

311. Introduction to Eastern Religions. (3-0-3)
Surveys the major tenets of Hunduism, Buddhism, and other major Eastern religions with emphasis upon the cultural and political influences of these religions, past and present.

401. Seminar in Medieval Philosophy and Religion. (3-0-3)
Advanced course. Special attention will be given the works of St. Thomas Aquinas and Maimonides. *Spring.*

402. Contemporary Thought in Religion and Philosophy. (3-0-3)
Research and discussion of various ideas on schools of thought related to contemporary social ethics. Different topics will be identified by the titles following the listing on the schedules. May be repeated for credit.

403. Individualized Study in Religion/Philosophy. (1-0-1 to 5-0-3)
The student selects a special topic, era, or person for concentrated, supervised research under the direction of the instructor. Limited to advanced students minoring in the area. Prior permission of the instructor is necessary.

THE FRENCH, GERMAN, AND SPANISH MINOR

The aims of the French, German and Spanish minors are: (1) to develop the ability to communicate in a foreign language; (2) to instill respect for other peoples and other cultures; (3) to develop an appreciation for the artistic expressions which are found in other languages; and (4) to bring about a greater awareness of our cultural heritage. Underlying these aims is the ultimate goal of preparation for a more effective life.

Taken in conjunction with an education major, the foreign language minor can lead to a Georgia Teaching Certificate. The French minor comprises French 241, 242, 243, 341, 342, 343. The German minor comprises German 251, 252, 253, 351, 352, 353. The Spanish minor consists of Spanish 261, 262, 263, 361, 362, 363.

Twenty-five quarter hours are required for a minor in French, German or Spanish.

Study Abroad Program of the University System of Georgia allows for earning up to 15 hours in French, German, or Spanish by summer study in a country where the language is spoken.

DESCRIPTIONS OF COURSES

FRENCH (FRE)

141. Elementary French. (4-2-5)
This is the first course in the sequence for beginners or those wishing to review. It focuses on practice in hearing, speaking, reading, and writing everyday French. The culture of France and other Francophone communities in the world is also stressed. *Fall.*

142. Elementary French. (4-2-5)
This course is a continuation of French 141. Prerequisite: Grade of "C" or better in French 141 or passing score on placement test. *Winter*

143. Elementary French (4-2-5)
This course is a continuation of French 142. Prerequisite: French 142 or passing score on placement test. *Spring.*

241-242. Intermediate French. (5-0-5)
Intensive review of grammar and structures. It involves practice in speaking and writing based on textual reading. It is to be taken in sequence. Prerequisite: French 143 or permission of the instructor. *Fall and Winter or offered upon request.*

243. Conversation and Composition. (5-0-5)
This course involves practice in understanding, speaking, and writing conversational French. Prerequisite: French 242. *Spring or offered upon request.*

341-342. Survey of Literature. (3-0-3)
Study of literature from present to past, terminating with the chason de geste. Emphasis on such writers as Sartre, Baudelaire, Balzac, Hugo, Rousseau, Moliere, Pascal, Montaigne, Rabelais. Prose, poetry and drama. Prerequiste: FRE 242.

343. French Civilization. (4-0-4)
Acquaintance of the student with principal contributions of France to Western Civilization. Prerequisite: FRE 242.

344. Oral Communication. (5-0-5)
Further development of ability to understand and speak French. Discussion of national and international topics from news media and French publications. Prerequisite: FRE 243.

345-346-347. Study in France. (10 to 15 hours)
The student spends one summer in the Study Abroad Program of the University System of Georgia. The student takes language, literature and civilization courses and participates in extracurricular activities, including cultural tours. Prerequisite: FRE 243. *Summer*

GERMAN (GER)

151. Elementary German. Part 1. (4-2-5)
First course in sequence. For beginners or those wishing to review. Practice in hearing, speaking, reading, and writing everyday German. *Fall.*

152. Elementary German. Part 2. (4-2-5)
Continuation of German 151. Prerequisite: Grade of "C" or better in GER 151 or passing score on placement test. *Winter.*

153. Elementary German. Part 3. (4-2-5)
Continuation of German 152. Prerequisite: German 152 or passing score on placement test. *Spring.*

251-252. Intermediate German. (5-0-5)
Intensive review of grammar and structures. Practice in speaking and writing based on textual readings. To be taken in sequence. Prerequisite: GER 153 or permission of the instructor.

253. Conversation and Composition. (5-0-5)
Practice in understanding, speaking, writing conversational German. Prerequisite: GER 252.

351-352. Survey of Literature. (3-0-3)
Study of literature from present to past. Prerequisite: GER 252.

353. German Civilization. (4-0-4)
Acquaintance of the student with principal contributions of German to Western Civilization. Prerequisite: GER 252.

354. Oral Communication. (5-0-5)
Further development of ability to understand and speak German. Discussion of national and international topics from news media and German publications. Prerequisite: GER 253.

355-356-357. Study in Germany. (10 to 15 hours)
One summer in the Study Abroad Program of the University System of Georgia. The student takes language, literature and civilization courses and participates in extracurricular activities, including cultural tours. Prerequisite: GER 153.

SPANISH (SPA)

161. Elementary Spanish. (4-2-5)
For students with no previous language study. Practice in hearing, speaking, reading and writing everyday Spanish. To be taken in sequence. *Fall*

162. Elementary Spanish. (4-2-5)
For students with no previous language study. Practice in hearing, speaking, reading and writing everyday Spanish. To be taken in sequence. *Winter.*

163. Elementary Spanish. (4-2-5)
For students with no previous language study. Practice in hearing, speaking, reading and writing everyday Spanish. To be taken in sequence. *Spring.*

261-262. Intermediate Spanish. (5-0-5)
Intensive review of basic principles of the language; practice in speaking and writing based on textual readings. To be taken in sequence. Prerequisite: SPA 163.

263. Conversation and Composition. (5-0-5)
To accustom the student to understand, speak, and write conversational Spanish. Prerequisite: SPA 262.

361-362. Survey of Literature. (3-0-3)
Introduction to some of the principal authors, works, and ideas in the literature of Spanish-speaking countries. Prerequisite: SPA 262.

363. Spanish Civilization. (4-0-4)
To acquaint the student with the principal contributions of Spain to Western civilization. Prerequisite: SPA 262.

364. Oral Communication. (5-0-5)
Further development of ability to understand and speak Spanish. Discussions of national and international topics from news media and Spanish magazines. Prerequisite: SPA 263.

365-366-367. Study Abroad. (10 to 15 hours)
One summer in the Study Abroad Program of the University System of Georgia. The student takes language, literature and civilization courses and participates in extracurricular activities including cultural tours. Prerequisite: Recommendation of instructor.

DEPARTMENT OF RECREATION

KENNETH F. TAYLOR, HEAD

Loris Boyd
Frank Ellis
John Myles
Yolanda Hall, Secretary

The Department of Recreation has as its major goal the preparation of students for professional careers in leadership, supervision, administration, and planning in recreation, park, and leisure service. It also provides the service program for college required physical education.

A Major in Recreation and Park Administration, with two options, is offered. The options are Recreation Programming and Administration and Recreation for Special Populations.

The Department offers a minor in Recreation and Park Administration.

PHYSICAL EDUCATION REQUIREMENTS

During the freshman and sophomore years all students (except veterans and those over 25 years of age) are required to complete six hours of physical education and/or health. The satisfactory completion of this work is a prerequisite for graduation. Students with handicapping conditions are encouraged to consult with the coordinator of the area for the development of an individualized program based on their needs. Students taking physical education classes must wear the regulation Savannah State College physical education uniform.

REQUIRED EXAMINATIONS

1. Each candidate for the baccalaureate degree in the Department of Recreation is required to pass the reading and essay writing components of the Regents' Testing Program (RTP).
2. Senior Recreation and Park Administration majors are required to take a major comprehensive examination.

CURRICULA FOR MAJORS IN RECREATION AND PARK ADMINISTRATION

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: (All Options)

Area I—Humanities: 20 hours

English 107, 108, 109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours

MAT 107,	5 hours
Computer Science 125, 126	5 hours
Ten-hour laboratory sequence from the listed courses:	
Chemistry 101-102	
Biology 123-124	10 hours

Area III—Social Sciences: 20 hours

History 102, 203	10 hours
Political Science 200	5 hours
Psychology 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours

Sociology 201	5 hours
Communications 110	3 hours
English 201	3 hours
Computer Science 210	5 hours
Recreation 101, 209, 211	14 hours

Additional Requirements: 8 hours

Physical Education	6 hours
General Education 101	2 hours

SENIOR CURRICULUM:

Requirements for All Options: 49 hours

Recreation 220, 325, 330, 331, 341, 435, 440, 480	49 hours
English 413	5 hours

OPTION I—CONCENTRATION IN RECREATION PROGRAMMING AND ADMINISTRATION

Requirements: 50 hours

Political Science 392, 410 Criminal Justice 301	10 hours
Art 238 Music 409 English 406, 411	15 hours
Anthropology 201 Psychology 303 Recreation 365	10 hours
Electives (restricted to major courses)	10 hours

OPTION II—RECREATION FOR SPECIAL POPULATIONS

Requirements: 50 hours

Recreation 365, 431, 461	10 hours
Political Science 392, 410 Criminal Justice 301	10 hours
Art 238, 322, 333 Music 200 English 406, 411, 416 Theatre 406 Industrial Arts Education 110	10 hours
Anthropology 201 Psychology 426 Social Work 410	10 hours
Electives	5 hours

MINOR IN RECREATION AND PARK ADMINISTRATION

REC 209	5 hours
REC 211	5 hours
REC 325	5 hours
REC 331	5 hours
REC 341	4 hours
REC 435	5 hours
	29 hours

COURSES THAT WILL SATISFY PHYSICAL EDUCATION REQUIREMENTS

PHYSICAL EDUCATION (PED)

110. Concepts in Physical Education. (1-2-2)
All Quarters.

114. Tennis Techniques. (0-2-1)
All Quarters.

115. Advanced Beginner's Tennis. (0-2-1)
Winter & Spring.

116. Intermediate Tennis. (0-2-1)
Spring.

117. Archery Techniques & Skills. (0-2-1)
All Quarters.

122. Volleyball Techniques. (0-2-1)
All Quarters.

123. Softball Techniques. (0-2-1)
Spring.

124. Weight Training. (0-2-1)
Fall.

125. Weight Training. (0-2-1)
Winter.

126. Weight Training. (0-2-1)
Spring.

127. Badminton Techniques. (0-2-1)
All Quarters.

130. Body Mechanics. (1-2-2)
All Quarters.

131. Body Mechanics. (1-2-2)
All Quarters.

134. Physical Conditioning. (1-2-2)
Fall.

135. Physical Conditioning. (1-2-2)
Winter.

136. Physical Conditioning. (1-2-2)
Spring.

137. Recreational Activities. (0-2-1)
All Quarters.

139. Tumbling Techniques. (0-2-1)
All Quarters.

142. Folk & Square Dance (0-2-1)
All Quarters.

143. Social & Ballroom Dance. (0-2-1)
All Quarters.

150. Soccer Techniques. (0-2-1)
Fall.

154. Modern Dance Techniques. (0-2-1)
All Quarters.

155. Modern Dance Performance. (0-2-1)
Winter & Spring.

156. Modern Dance Creation & Interpretation. (0-2-1)
Spring.

159. Aerobic Dancing. (0-2-1)
All Quarters.

164. Beginner's Swimming. (0-2-1)
All Quarters.

165. Advanced Beginner's Swimming. (0-2-1)
All Quarters.

166. Intermediate Swimming. (0-2-1)
All Quarters.

175. Swimming for Physical Fitness. (4-1-3)
Designed to introduce the student to techniques for improving his physical fitness through the use of swimming and aquatic activities. Prerequisites: Ability to swim as determined by the swimming instructor.

HEALTH (HED)

105. Concepts in Health. (3-0-3)
All Quarters.

145. Wellness (3-0-3)
Designed to facilitate improvements in the students lifestyle.
105. *All Quarters.*

165. Human Sexuality. (0-3-3)
Designed to introduce the student to some of the many factors that influence human sexual behavior and some common sexual lifestyle options.

170. The Physical Fitness Component. (2-2-3)
Designed to introduce the student to the role of physical fitness in a wellness lifestyle. It will also involve the students in ways of developing this component.

200. First Aid and Safety. (3-0-3)
All Quarters.

201. Safety Education. (2-0-2)
All Quarters.

221. Physical Activity and Stress Management. (2-2-3)
Designed to explore the nature of human stress and to examine some physical methods of reducing the stress response.

222. Physical Activity, Nutrition, and Weight Control. (2-2-3)
Designed to promote weight control through an understanding of nutrition and physical activity and their roles in its maintenance.

ELECTIVE COURSES
PHYSICAL EDUCATION (PED)

224. Principles of Officiating. (3-0-3)
Theory & Philosophy of officiating. *All Quarters.*

225. Officiating Volleyball, Tennis, & Badminton. (3-0-3)
Prerequisite: PED 224. *Winter Quarter.*

226. Officiating Football. (3-0-3)
Prerequisite: PED 224. *Fall & Winter.*

227. Officiating Basketball. (3-0-3)
Prerequisite: PED 224. *Fall & Winter.*

228. Officiating Baseball. (3-0-3)
Prerequisite: PED 224. *Winter & Spring.*

255. Physical Fitness Programming. (2-2-3)
This course deals with all phases of the physical fitness program, including developing programs, administering physical fitness tests, conducting the program, and evaluating the program. *All Quarters.*

265. Methods in Swimming. (0-3-2)
Methods of instructing individuals, small and large groups in swimming techniques. Prerequisite: PED 166 or pass swimming Proficiency test. *All Quarters.*

RECREATION COURSES (REC)

101. Recreation in Modern Society. (3-4-5)
The role of recreation, parks, and sports in human experiences and in the structure of the community.

205. Care and Prevention of Athletic Injuries. (3-0-3)

Designed to provide knowledge and skills to aid in the prevention and treatment of injuries common to athletes. Emphasis on prevention and reconditioning programs. Prerequisite: BIO 124.

209 Professional Foundations of Recreation. (5-0-5)

Introduction to the basic historical and philosophical foundations of leisure and recreation. Prerequisite: REC 101.

211. Recreation Activity Leadership. (5-0-5)

Methods and techniques of individual and group leadership in recreation activities. Prerequisite: REC 209

220. Areas and Facilities. (5-0-5)

Design concepts and principles applied to planning and development of recreation areas and facilities. Prerequisite: REC 211

228. Theatre Dance. (2-2-2)

Designed to expose the dancer to the dynamic style pieces used in musical theatre choreography. Prerequisite: PED 156 or permission of the dance instructor.

229. Afro-Carribean Dance. (2-1-2)

Designed to focus on skills and folklore of Afro-Carribean dance style. Prerequisite: PED 156 or permission of the dance instructor.

315. Camping and Outdoor Recreation. (5-0-5)

Selected organizational and administrative aspects of organized camping and outdoor recreation. Prerequisite: REC 211

325. Recreation Program Development. (3-4-5)

Principles of recreation program development; study of recreation program areas available to participants; and analysis of methods of program design. Prerequisite: REC 220.

330. Recreation Field Work. (1-8-5)

Directed field experience in a recreation agency under the supervision of a faculty advisor and an agency supervisor. Prerequisite: REC 325.

331. Recreation and Special Populations. (3-4-5)

Study of history and development of recreation for special populations. Examination of various agencies providing programs and services for the elderly, handicapped, juvenile delinquents, and the imprisoned criminal. Prerequisite: REC 325.

341. Community Recreation. (2-4-4)

Examines recreation and leisure in the community; relationships of recreation agency to other community agencies; financial support for recreation; and organization and structure of community recreation agency. Prerequisite: REC 101.

345. Methods in Recreational Dance.

To introduce basic approaches to teaching folk, square, and social dance, with application to school and recreation dance programs. Prerequisite: PED 156 or permission of the instructor.

350. Dance Seminar. (1-3 cr. hrs.)
To guide the student through the interpretation, creation, and choreography of a dance presentation. Prerequisite: Member of the Savannah State College Dance Theatre or permission of the dance instructor.

365. Social Recreation. (3-4-5)
Development of basic understanding of group dynamics within the context of recreation goals and operational structure. Prerequisite: REC 325.

410. Recreation and the Corrective Institutions. (3-4-5)
Study of recreation in corrective institutions with an intensive examination of present policies and procedures covering recreation programs in these settings. Prerequisite: REC 331.

431. Recreation Programming for Special Populations. (3-4-5)
Evaluation of recreation programs and services provided for special populations. Prerequisite: REC 331.

435. Recreation Organization and Administration. (3-4-5)
Organization and administration of recreation programs and parks in community settings; legal aspects; source of funds; types of programs; and public relations. Prerequisite: Senior standing and permission of instructor.

440. Evaluation in Recreation. (3-4-5)
Approaches to and uses of evaluation in recreation and parks, emphasizing assessment of leisure needs, programs, personnel, equipment, and facilities. Prerequisite: Senior standing and permission of instructor.

461. Community-Based Recreation for Special Populations. (2-6-5)
Examination of the organizational structure and functions of various community agencies providing recreation for special populations. Prerequisite: REC 431.

480. Recreation Internship. (0-30-15)
Internship in an approved agency under a professional recreator. Prerequisite: Senior standing and approval of Department Head.

DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES

ANNETTE K. BROCK, Head

Modupe Akin-Deko
Kenoye Eke
Lawrence Harris
Gaye Hewitt
Kenneth A. Jordan
Ja A. Jahannes
Willie E. Johnson
Tyrone Price
John Simpson
Steven Smith
Merolyn Stewart
Hanes Walton
Daniel Washington

Barbara A. McFall, Secretary

Greta Blake - Instructional Service Coordinator

The Department of Social and Behavioral Sciences seeks to provide an understanding of the disciplines of Criminal Justice, History, Political Science, Psychology, and Urban Studies, as well as to provide for the development of scholarly activities, civic awareness, an appreciation of human and cultural backgrounds and relationships and to prepare students for achievement of goals in chosen careers and higher education. The department seeks to involve faculty and students in activities that address the issues, concerns, problems, resources, and opportunities of the coastal area, state, nation, and the larger world.

The Department of Social and Behavioral Sciences offers four majors. The Bachelor of Arts degree is offered in History, Political Science, and Urban Studies. The Bachelor of Science degree is offered in Criminal Justice.

The department offers minor programs in Afro-American Studies, Criminal Justice, History, Psychology, Political Science, Urban Studies and International Relations.

The department offers a master's program in Public Administration.

MINORS IN SOCIAL AND BEHAVIORAL SCIENCES

The Division of Social Sciences offers the following minors:

History	Quarter Hours
HIS 202 and 203	10
HIS 351 or 352 or 353 or 308 or 312	5
HIS 331 or 332 or 370 or 380 or 408	5
Any additional 300 or 400 level courses	5
	25

Urban Studies	Quarter Hours
URB 301	5
URB/PSC 350	5
URB/PSC 392	5
URB/PSC 410	5
URB/ECO 404	5
	25

Criminal Justice	Quarter Hours
CRJ 200	5
CRJ 301	5
CRJ 303	5
CRJ 330	5
CRJ 401	5
	25

Afro-American Studies	Quarter Hours
The student will select 25 hours from the following:	
HIS 308	5
HIS 312	5
HIS 411	5
ECO 404	5
MUS 210	3
ENG 315	3
ENG 317	3
SOC 460	5

Psychology	Quarter Hours
PSY 301	5
PSY 302	5
Psychology Electives	15
	25

Students who minor in Psychology are required to take 25 hours in Psychology above the 200 level and are required to take PSY 301 and PSY 302. Students may select electives from other Psychology courses above the 300 level.

Political Science	Quarter Hours
PSC 200	5
PSC 303	5
PSC 304	5
PSC 310	5
PSC 403	5
PSC 405	4
	29

HISTORY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 98 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 107, 108, or 109	5 hours
Ten-hour laboratory sequence from the following: Biology 123-124 or 126-127 Chemistry 101-102 Physics 201-202	10 hours
Physical Science 203	5 hours

Area III—Social Sciences: 20 hours required
- History 101-102 ..... 10 hours
- Political Science 200 ..... 5 hours
- Psychology 201 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- History 202-203 ..... 10 hours
- Social Science 111 ..... 5 hours
- Economics 201 or 202 ..... 5 hours
- A sequence from the following:
  - Elementary French 141-142
  - Elementary German 151-152
  - Elementary Spanish 161-162 ..... 10 hours

Additional Requirements:
- Physical Education ..... 6 hours
- General Education 101 ..... 2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 90 quarter hours

Major Requirements: 50 hours as specified
- History 301, 308, 331, 332, 351 or 352, 353, 370 or 380, 401 or 411, 413 or 414, SOC 201 ..... 50 hours

Minor Requirements ..... 25 hours

General Elective ..... 15 hours

COMPREHENSIVE EXAMINATION FOR HISTORY MAJORS

Senior history majors are required to take the Advanced Test in History of the Graduate Record Examination (GRE) as the comprehensive examination in their field.

CRIMINAL JUSTICE CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours
- required Mathematics 107, 108, or 110 ..... 5 hours
- Ten-hour laboratory sequence from the following:
  - Biology 123-124 or 126-127
  - Chemistry 101-102
  - Physics 201-202 ..... 10 hours
- Physical Science 203 ..... 5 hours

Area III—Social Sciences: 20 hours required
- History 101-102 ..... 10 hours
- Political Science 200 ..... 5 hours
- Psychology 201 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- History 202-203 ..... 10 hours
- Sociology 201 ..... 5 hours
- Social Science 111 ..... 5 hours
- Criminal Justice 200-201 ..... 10 hours

Additional Requirements
- Physical Education ..... 6 hours
- General Education 101 ..... 2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 90 quarter hours

Major Requirements: 50 hours as specified
- Criminal Justice 300-301-303-330-332-401-403-405-407-413 ..... 50 hours

Minor Requirements ..... 25 hours

Recommended Electives:
- Three of the following:
- Criminal Justice 395-408-410-460 ..... 15 hours

COMPREHENSIVE EXAMINATION FOR CRIMINAL JUSTICE MAJORS

Senior criminal justice majors are required to take the aptitude section of the Graduate Record Examination.

POLITICAL SCIENCE CURRICULUM:

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107, 108, or 109 ..... 5 hours
- Ten-hour laboratory sequence from the following:
  - Biology 123-124 or 126-127
  - Chemistry 101-102
  - Physics 201-202 ..... 10 hours
- Physical Science 203 ..... 5 hours

Area III—Social Sciences: 20 hours required
- History 101-102 ..... 10 hours
- Political Science 200 ..... 5 hours
- Psychology 201 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- History 202-203 ..... 10 hours
- Foreign Languages ..... 10 hours
  - FRE 141-142
  - GER 151-152
  - SPA 161-162
- Mathematics 200-201 ..... 5 hours
- SOS 111 ..... 5 hours

Additional Requirements
- Physical Education ..... 6 hours
- General Education 101 ..... 2 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 94 quarter hours

Major Requirements: 55 hours as specified
- Mathematics 217 ..... 5 hours
- Political Science 303-304-310-311-390-391-392-403-405-499 ..... 50 hours

Minor Requirements ..... 29 hours

General Electives ..... 10 hours

COMPREHENSIVE EXAMINATION FOR POLITICAL SCIENCE MAJORS

Senior political science majors are required to take the Advanced Test in Political Science of the Graduate Record Examination (GRE) as the comprehensive exit examination in their field.

URBAN STUDIES CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107, CSC 125, or CSC 126 ..... 10 hours
- Ten-hour laboratory sequence from the following:
  - Biology 123-124 or 126-127
  - Chemistry 101-102
  - Physics 201-202 ..... 10 hours

Area III—Social Sciences: 20 hours required
- HIS 101-102 ..... 10 hours
- HIS 202 or 203 ..... 5 hours
- PSC 200 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

CRJ 200	5 hours
ECO 200	5 hours
ENG 204 or BAD 225	5 hours
PSY 201	5 hours
SOC 201	5 hours
SOS 200	5 hours

Additional Requirements:

Physical Education	6 hours
General Education	2 hours

SENIOR COLLEGE CURRICULUM

Major Requirements: 40 hours

URB 301, 395 (396-397), 495
ECO 404
PSC 350 or 410, 392
HIS 325
SOS 300

Area of Concentration: 20 hours

Mass Communications, Criminal Justice, Psychology, Gerontology, Political Science, Sociology, Social Work, Recreation and Parks Administration, or Interdisciplinary courses to be approved by Advisor.

Minor Requirements: 25 hours

DESCRIPTION OF COURSES

SOCIAL SCIENCES

111. World of Human Geography. (5-0-5)
A study of man's relationship to his natural, physical and cultural environment; world patterns of population, climate, and industrial development; problems of agriculture, commerce, trade, transportation and communication, conservation of natural resources.

HISTORY (HIS)

101. History of World Civilizations. (5-0-5)
A survey of the major civilizations of the world from the earliest time to about 1500.

102. History of World Civilizations. (5-0-5)
A survey of the major civilizations of the world from about 1500 to the present; continuation of HIS 101.

103. The World Since 1918. (2-0-2)
A study of the contemporary world since World War I with emphasis on political, cultural, and intellectual developments and international relations.

201. History of American Military Affairs. (5-0-5)

This course is an introductory survey of military affairs in the United States from the Revolution to the present. Its major purpose is to acquaint the student with the American military experience, to emphasize the problems involved in waging war, and to examine the effects of waging war on the society that wages it.

202. History of the United States to the Civil War. (5-0-5)

An introductory survey of the formative years of the history of the United States.

203. History of the United States Since the Civil War. (5-0-5)

A survey of Afro-American and American History from the Civil War to the present.

301. Historical Research. (5-0-5)

Analysis of the sources, and critical methods in evaluating, organizing and using such materials. Attention to selected outstanding historians and distinctive types of historical writing. Prerequisites: HIS 202-203-331-332-353.

308. Afro-American History. (5-0-5)

A survey of the history of Afro-Americans beginning with the African background and continuing to the present.

312. The Afro-American in the 20th Century. (5-0-5)

Major emphasis is placed on the modern Afro-American experiences such as Afro-American participation in the World Wars, the Depression, and the struggles for civil rights, identity, and self-determination.

325. Urban History. (5-0-5)

A study of the development and transformation of cities and urban populations; ancient, early modern and modern cities will be included.

331. History of Early Modern Europe. (5-0-5)

History of Europe from about 1500 until the French revolution, covering the Reformation, Scientific Revolution, absolutism, family and demographic developments, and the Enlightenment. Lectures and assigned readings.

332. History of Modern Europe. (5-0-5)

A detailed study of the political, social, economic, and intellectual developments in Europe since 1789. Emphasis is on western Europe. Lectures, assigned readings, research papers.

351. American Revolution and New Nation. (5-0-5)

An examination and analysis of the formative forces in American life during the period from the 1750's through the launching of a new system of national government under the constitution of 1787.

352. American Civil War and Reconstruction. (5-0-5)

An intensive examination and analysis of the forces at work in American life during the crucial period from 1840 through 1877.

353. Recent American History. (5-0-5)

An intensive study of the political, social, and economic history of the United States from the First World War to the present.

370. The History of Latin America. (5-0-5)

An appraisal from both an historical viewpoint of the political, intellectual, social and economic development of Latin America and its relations with the United States. Prerequisite: HIS 202, 203.

380. History of the Far East. (5-0-5)

An introduction to the civilization and culture of the Far East with special attention to the roles of China, Japan, and India in world affairs during the last century. Prerequisites: HIS 202-203-331-332.

395-396-397. Internship. (Varies)

An individually designed course-project involving off campus study and research in a government or private agency, during which the student will be under the joint supervision of the sponsoring agency and his faculty advisor. To be arranged by faculty advisor and department chairman.

401. Social and Intellectual History of the United States. (5-0-5)

An examination of the principal social and intellectual trends since the Jacksonian era with the purpose of increasing the student's awareness of the social and intellectual forces at work in contemporary America and their historical precedents.

402. Individual Study and Independent Research.

This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. *3 to 5 credit hours.* Students must register for course.

408. History of Russia Since 1815.

An examination of the major economic and political developments in addition to the various reform movements of Tsarist Russia. Emphasis is placed on the October Revolution and its aftermath. Prerequisites: HIS 331-332.

411. History of African and Afro-American Thought. (5-0-5)

This course is designed to deal primarily with the ideas, institutional practices, values, and ideologies embraced by Africans and Afro-Americans historically and contemporaneously. It incorporates the philosophy and tactics of accommodation, integration, and separation.

413. History of England to 1688. (5-0-5)

A study of the political, social, economic, and intellectual movements in England. Emphasis on constitutional developments in the medieval period and during the early modern era.

414. History of England Since 1688. (5-0-5)

A study of the political, social, economic, and intellectual movements in England since the Glorious Revolution. Emphasis is given to those factors which enabled Britain to rise to a position as a world power and the decline of British influence in the twentieth century.

CRIMINAL JUSTICE (CRJ)

200. Introduction to Criminal Justice. (5-0-5)

This course deals with the philosophical background to criminal justice, a brief history of criminal justice, the constitutional limitations of criminal justice, the agencies involved in criminal justice, the processes of criminal justice, and evaluating criminal justice today.

201. Law Enforcement. (5-0-5)

This course involves the detailed study of basic police operations, the policeman's role in law enforcement. Special topics include the police career, criminology for policemen, preserving order and keeping the peace, arrest procedures, search and seizure, traffic control, mob control, picketing and riots.

300. Judicial Process. (5-0-5)

This is presently a five credit required course, which deals specifically with the various state, federal, and military courts. It will discuss their jurisdiction, limitations, and operational problems. The role of the judge, prosecutor, defense, and clerk of the court will be examined, as well as basic trail procedure comparing civil and criminal cases will be discussed.

301. Juvenile Delinquency. (5-0-5)

This course studies both the legal and social character of juvenile delinquency. Special topics include the policeman's role in the delinquency problem, juvenile deviants and social definitions and behavior, the family and delinquency, middleclass delinquency, interacting factors in delinquency, gangs, crime, courts, and the Gault decision. Prerequisite: CRJ 200.

303. Constitutional Law. (5-0-5)

This course will examine in detail those articles and constitutional amendments which deal exclusively and specifically with police powers and implied law enforcement operational activities. Prerequisite: CRJ 200.

305. Judicial Process I. (3-0-3)

This is presently a five credit required course, to be divided into a three credit course which will deal specifically with the various state, federal, and military courts. It will discuss their jurisdiction, limitations, and operational problems, also to include the county, municipal, and juvenile court systems as they exist today.

306. Judicial Process II. (2-0-2)

This recommended two credit course will deal with the duties of the various court officers, their specific duties, responsibilities, required training and background experience, and various types of certification and means by which they hold their offices. The role of the judge, prosecutor, defense, and clerk of the court will be examined, as well as basic trial procedure comparing civil and criminal cases will be discussed.
Students majoring in criminal justice will still be required to satisfactorily pass both parts of the judicial process case.

309. Research Methods in Criminal Justice. (5-0-5)

This practical course allows students the opportunity to utilize various operational research methods to conduct surveys, develop concepts, find applicable law and brief cases for examination and policy and procedure development.

320. Residential and Industrial Security. (3-0-3)
This course will examine methods to insure residential and industrial security and describe methods utilized by criminal elements to commit theft of property in industry and the community.

325. Correctional Counseling. (3-0-3)
This course is designed to assist the criminal justice major considering inmate counseling or correction officer duties as a career. It will cover the whole concept of educational counseling with inmates and assisting them in their successful rehabilitational efforts. The typical prisoners' problems will be discussed as case studies and practical situations as they exist in prisons will be analyzed and resolved as case studies and with legal application.

326. Inmates Rights. (2-0-2)
This course outlines the duties and responsibilities of Correctional Officers in dealing with inmates within the prison system. Subjects covered will be the status of both Pretrial and Convicted Offenders. Prisoners' Rights, Loss of Rights and Legal Remedies available under the Laws and Case Judgements.

330. Basic Criminal Procedure. (5-0-5)
An examination of the role of the courts and law enforcement agency in the criminal justice process. Special topics include arrest, search and seizure, wire tapping, electronic eavesdropping, the use of secret agents, entrapment, police interrogations and confessions, the exclusionary rules, police lineups and other pretrial identification procedures. Prerequisite: CRJ 200.

332. Police Community Relations (5-0-5)
The role of law enforcement agencies in the community with special references to ethnic, social and financial problems as well as solutions to basic conflicts in minority police relationships. Prerequisite: CRJ 200.

375. Communications Law. (5-0-5)
Study of the laws affecting American media, including the concept of freedom of speech and press, federal regulatory agencies, libel, slander, copyright and invasion of privacy.

395-396-397. Internship. (0-0-5)
Work and study experience in one of the specialized career fields of criminal justice. Prerequisite: Junior or Senior standing and consent of instructor.

400. Individual Study and Independent Research. (Varies)
This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. Students must obtain instructor's prior approval.

401. Criminal Law I. (5-0-5)
Studies the nature, sources and types of criminal law. The classification and analysis of crimes in general and the examination of specific offenses. Special topics include: homicide, murder, rape, larceny, robbery, and arson. Prerequisite: CRJ 200.

403. Corrections, Probation, and Parole. (5-0-5)
This course studies and overviews the principles, institutions and practices of corrections, probation and parole systems. Special topics include: analysis and evaluation of historical and contemporary correctional systems, the development organization and results of different systems. Prerequisite: CRJ 200.

405. Seminar in Criminal Justice. (5-0-5)
This course analyzes the legal policy and operational procedures to be followed in investigating and resolving various specialized situations of crime and criminal behavior. Modern police practices, community-police relationships, law enforcement facilities, training, recruiting and utilization of men and equipment are discussed. Special topics include the use of police dogs and helicopters. Current and future problems faced in all phases of the law enforcement field form the basis for much of the assigned seminar discussion topics. Open to Senior Criminal Justice students only.

407. Evidence in Law Enforcement. (5-0-5)
This course deals with the rules of evidence and their value in police and law enforcement operations. Special topics include classification of evidence, recognition of evidence, utilization of evidence, investigative leads and courtroom presentations, the hearsay rule and its exceptions, best evidence rule, impeachment and cross examination, governmental privileges and scientific and demonstrate evidence. Prerequisite: CRJ 200.

408. Law and Society. (5-0-5)
This course will develop the historical and philosophical development of law and its relationship to society. Such issues as personal privacy, civil disobedience and regulation of moral behavior will be discussed. Prerequisite: CRJ 200.

410. Civil Liberties. (5-0-5)
Examination of civil rights in the light of possible violation of both criminal and civil statutes. Federal and state cases in the civil rights field will be studied. Strong emphasis will be placed on a clear understanding of current judicial interpretation in this field. Prerequisite: CRJ 200.

413. Investigations I. (5-0-5)
This course will deal with investigations from an operational viewpoint discussing methods and techniques, equipment and facilities, the various agencies and their responsibilities within the federal and state law enforcement program. Technical and scientific crime fighting will be studied and a general overall concept of law enforcement from a crime prevention application will be examined.

423. Criminology for CRJ Majors. (5-0-5)
This course will deal with the law, policies and procedures which will affect the investigating officer. The course studies those policies and procedures based on recent legislative and judicial decisions with which an investigator must be knowledgeable and examines the principle which he must apply in his assigned task of criminal investigation.

POLITICAL SCIENCE (PSC)

200. Government. (5-0-5)
Provides a general understanding of the concepts, functions, and operations of government (international, national, state and local), and basis for development of desirable attitudes, critical thinking, and intelligent participation in political affairs.

201. National Security Policy. (5-0-5)
Deals with the formulation and implementation of American security policy. American military history is analyzed briefly to determine the factors bearing on the development of the defense structure of the United States. The method formulation of national security policy is studied, as is the role of each governmental component concerned with security affairs. The elements of national power are reviewed.

303. International Politics. (5-0-5)

It is a survey study of the basic factors which motivate international relations, including power, politics, ideology, and nationalism. It is concerned with: the causes of war, the international organization, world government, and diplomacy. Special emphasis is placed on case studies, independent study, reading, research, and writing. Prerequisite: PSC 200 or consent of instructor.

304. Comparative Government and Politics. (5-0-5)

This course stresses the institutional, political, and cultural differences and similarities between various countries and blocs of countries. Special emphasis is placed on various case studies in Western Europe, the Soviet Bloc, and the developing areas of Latin America, Africa, and Asia. Independent study, readings, research, and writing are stressed. Prerequisite: PSC 303 or special permission.

310. State Government. (5-0-5)

A survey of the nature, organization, and problems of the state and local government and administration in the United States.

311. American Constitutional Law. (5-0-5)

The evolution of American Courts; the development and application of American Constitutional Law, as interpreted in the leading decisions of the Supreme Court. Included are citizenship, the war powers, taxation, the commerce power, the impairment of contracts, due process of law, the civil liberties of individuals and groups, and the equal protection of the law. Recent trends in constitutional doctrine. Prerequisite: PSC 200.

330. The Politics of the Cinema. (3-0-3)

This course will survey the treatment of politics and the political process through films.

350. Public Policy. (5-0-5)

This is a survey course which deals with the ways in which public policy is formulated, adopted, implemented and adjudicated as well as the various techniques that have been developed to study it.

375. American Presidency. (5-0-5)

An analysis of the American Presidency, the men who serve in the office, the theories regarding the presidency, and the type of men who gain the office.

390. Black Politics. (5-0-5)

This course is designed primarily to deal with the Black man in the American political arena. It deals with Blacks as actors in the political system rather than being acted upon. Such topics as Black Political Parties, Black Pressure Groups, the Black Electorate, Black Public Officials, and Public Policy will be discussed.

391. African Government and Politics. (5-0-5)

The purpose of this course is to discuss the government of Black African states—Africa south of the Sahara. It will deal with the effects of colonialism, neocolonialism, and nationalism upon contemporary political institutions in each African state.

392. Urban Government. (5-0-5)

Metropolitanism, the control of central city, the rise of Black mayors, the problems of air, water, and population will all be discussed in connection with the continual urbanization of a society.

395-396-397. Internship. (Varies)
The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full quarter for completion, during which time the student will be under joint supervision by the sponsoring agency and his faculty advisor. Credit must be arranged by faculty advisor and department chairman.

400. Voting Behavior. (5-0-5)
An analysis of the literature on voting behavior, political participation, and political behavior with emphasis on the problems and prospects and methods of studying voting.

401. Individual Study and Independent Research.
This course provides an opportunity for students to do supervised, individual reading or to engage in research in the field, classroom, or library in selected areas of the social sciences under the supervision of a member of the division. Open only to qualified juniors and seniors. *3-5 credit hours*. Students must register for course.

403. Political Theory. (5-0-5)
This course describes and analyzes significant theories and ideas underlying past and contemporary political systems. Leading topics of study and discussion are the influence upon political theory of Greek thought, the Roman doctrine of natural law, the church and state in the Middle Ages, Machiavelli and the rise of the modern state. Prerequisite: HIS 101, 102 or special permission.

404. Political Theory. (5-0-5)
A continuation of PSC 403. It emphasizes also the nature of liberalism, individualism, conservatism, state welfarism, fascism, national socialism, and communism. Abstract and philosophical thinking on the part of the student is stressed. Prerequisite: PSC 403.

405. The American Political Process. (4-0-4)
This is an inquiry into the functioning of the American political system, and the theories behind it. Stress is placed on federalism, political parties, and pressure groups and their relationship to the federal structure, and the causes of political behavior in American life. Independent study, readings, research, and writing are stressed. Prerequisite: PSC 200 or special permission.

409. American Political Thought. (5-0-5)
The purpose of this course is to discuss the nature, scope, and significance of American political ideas and thinkers. It will begin with the ideas of the revolutionary leaders and move to the political thoughts of the radical right, new left, and the Black Revolution.

410. Public Administration. (5-0-5)
Students in this course will be acquainted with the nature, principles and scope of public administration. The political and constitutionality of political and managerial roles of the chief executives and their staff will also be brought to light.

418. Government and Politics of Southeast Asia. (5-0-5)
This course will focus upon the governments of Southeast Asia and analyze the impact that colonialism, nationalism and communism have had upon them. The present foreign policy of each country will be discussed as well as its relationships to the SEATO organization.

419. Jurisprudence. (5-0-5)

This course will focus primarily upon the philosophy of the law and it will cover each school of jurisprudence (from historical to sociological jurisprudence) and relate these to a large context of man and his civil liberties.

425. Politics of Transportation. (5-0-5)

A study of the changing patterns of transportation in America and the effect of federal, state, and local governments on transportation with emphasis on methods of public control of transportation systems.

450. Political Parties. (5-0-5)

The focus of this course is upon the evolution, nature, and role of American political parties. The course will deal with each of the major party system as well as with theories about party organizations.

490. Honor's Seminar in Political Science. (1-0-1)

An opportunity for selected students in political science to explore through reading and research some of the issues, problems, and prospects in the discipline.

498. American Foreign Policy. (5-0-5)

This course will focus upon the origin, nature, and consequences of American foreign policies. Moreover, the role and impact of the Presidency, public opinion, Congress, and outcome will also be included.

499. Research in Political Science. (5-0-5)

This course is to acquaint the student with the nature of inquiry as well as the dimensions and approaches to Political Science. The historical, analytical, comparative, descriptive, legalistic, behavioral and mathematical application to man's political behavior will be discussed.

PSYCHOLOGY (PSY)

201. General Psychology. (5-0-5)

An introduction to the science which studies the behavior and experiences of living organisms and specifically, human behavior and experiences. Fall, Winter.

301. Advanced General Psychology. (5-0-5)

Consideration of the principles significant in understanding and explaining human experiences and behavior with special emphasis placed on motivation and emotion, personality and individuality, social psychology, psychotherapy and other treatment methods, and an introduction to scientific methodology and its application to behavior analysis. Prerequisite: PSY 201.

302. History of Psychology. (5-0-5)

A description of the work of those psychologists who have made the most significant contributions to the development of the science, with emphasis on the various systems of psychology, research, and experimentation. Prerequisite: PSY 201.

303. Social Psychology (5-0-5)

A study of the individual and his social context, beginning with the study of the social behavior of animals and including human functioning in small groups, in societies, and in cross-cultural perspectives. Attitudes, motives, and social perception will be emphasized. Prerequisite: PSY 301.

310. Tests and Measurements. (5-0-5)

A beginning course in measurement which covers statistical methods, research designs and research problems. Students are provided experiences in the administration and evaluation of psychological tests. Prerequisite: PSY 201.

401. Theories of Personality. (5-0-5)

An exploration of the theoretical basis of personality with emphasis on structure, dynamics, personality, development, normal and deviant behavior, attitudes, beliefs, and opinions. Prerequisite: PSY 302.

402. Mental Health. (5-0-5)

Analysis of the concept of the healthy personality and mental functioning as responding constructively to stress rather than merely adapting or adjusting to stress.

403. Psychology of Black Experience. (5-0-5)

An overview of contemporary topics in the area of Black psychology, including self-concept, achievement and motivation. Black family, and others. Prerequisite: PSY 301, PSY 303.

404. Experimental Psychology. (5-0-5)

Study and analysis of the most basic classical and modern experiments in psychology and the principles of experimental psychology illustrated therein; laboratory experience in conducting and reporting basic types of psychological experiments.

415. Humanistic Psychology. (5-0-5)

The individual and his relationships are the focal points of study. Individual perception, personality, motivation and self-esteem become the bases for individual self-actualization in relationships with other individuals, organizations and society.

426. Abnormal Psychology. (5-0-5)

This course will systematically explore the body of theory and data relevant to the understanding of maladaptive human process. The varieties of abnormal experiences and behavior will be discussed and an overview of current approaches to the resolution of the psychopathology will be offered.

URBAN STUDIES (URB)

ECO 404. Urban Economics. (5-0-5)

An analysis of urban growth centers and their concomitant problems utilizing the cost-benefit technique of evaluation. Location theory is used to delineate trends in urban growth patterns and activities. Specific urban problems arising from such growth trends as adequate revenue and tax base, human resource utilization, housing and land use, and urban poverty are discussed. Emphasis is placed upon solving such problems in terms of economic efficiency and equity.

HIS 325. Urban History. (5-0-5)

A study of the development and transformation of cities and urban populations. Ancient, early modern cities will be included.

PSC 350. Public Policy. (5-0-5)

A survey of the ways in which public policy is formulated, adopted, implemented and adjudicates as well as the various techniques used to study it.

PSC 392. Urban Government. (5-0-5)
Metropolitanism, the control of central city, the rise of Black mayors, the problems of air, water, and population will all be discussed in connection with the continual urbanization of a society.

PSC 410. Public Administration. (5-0-5)
Students in this course will be acquainted with nature, principles and scope of public administration. The political and constitutionality of political and managerial roles of the chief executives and their staff will also be brought to light.

URB 301. Introduction to Urban Planning and Development. (5-0-5)
Introduction to theories and definition of urbanism and planning. Relationships between urban development planning and questions of resource distribution are examined in their social ethnic spatial and political contexts.

URB 311. Urban Geography. (5-0-5)
This course focuses on the city as a center of economic, political, cultural, and intellectual activity. It studies the urban infrastructure using the conceptual tools of physical and cultural geography.

URB 395-396-397. Internship. (2-20-5)
The student will pursue an individually designed course-project involving off-campus study and research in a government or private agency. Projects are normally designed to require the full quarter for completion, during which the student will be under the joint supervision of the sponsoring agency and a faculty advisor. Credit will be arranged by the faculty advisor and the department chairman.

URB 490. Senior Seminar. (5-0-5)
Designed to be taken during the senior year to help integrate classroom learning, basic theory, readings, and life experience with internship experiences. Prerequisite: URB 395.

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES
Masters in Public Administration

Graduate Faculty

Ja A. Jahannes, Dean
Willie Johnson, MPA Director
Kenneth Jordan
Kenoye Eke
Roosevelt Green
William D. McCarthy
Hanes Walton

Purpose

The School of Humanities and Social Sciences is strongly committed to the Development of the intellectual, social, and professional competence of individuals. Consistent with this philosophy, the School and Savannah State College offer the MPA Program which enables students to acquire specialized training in a chosen field. The Masters of Public Administration Program (MPA) strives to broaden the student's understanding of the problems and opportunities of Urban communities and develop an awareness of social and civic responsibility. The MPA Program is dedicated to service through educational programs, community involvement, faculty and student research, and scholarship. By offering advanced professional training, the Program prepares individuals for positions of responsibility in all levels of government, education and business.

Admission Procedures

Admission to the MPA Program may be completed through the MPA Coordinator, School of Humanities and Social Sciences, Savannah State College, Savannah, GA. 31404. All admission documents and a $10 nonrefundable application fee must reach the College 20 days prior to registration. Graduates of Savannah State College need not pay the $10 fee.

The following materials are required for admission:

1. The application form must be completed.
2. Two official transcripts showing all college credits earned for the undergraduate degree should be sent to the MPA Coordinator directly from the college which awarded the degree. Official transcripts are required of all applicants except transient students who may submit a letter of authorization from their graduate school 20 days prior to registration.
3. Graduate Record Examination (GRE), General Test scores must be submitted by all degree-seeking students.
4. Two letters of recommendation from individuals familiar with the applicant's ability to successfully complete the graduate program must be submitted.

Action on admission can be taken only after essential materials are received.

Categories of Admission

Full Admission

Full admission means an applicant has met all admission requirements and is admitted to a degree program with full graduate status.

The requirements for full admission are, graduation from an accredited college or university with an undergraduate grade point (GPA) of 3.0 on a 4.0 scale and a score of 900 or better on the Graduate Record Examination.

Provisional Admission

Provisional admission means that a student has applied for admission to the MPA Program but has some condition affecting his/her status; e.g., low GRE score (800-899), low GPA (2.50 - 2.99), need for preparatory course work. The Student is admitted to the Program but must meet the following requirements before achieving full admission status.

Requirements

Upon completion of 15 hours (3 courses) of graduate level work with a "B" grade or better in each, admission will be reclassified as "Full Admission" providing all other requirements of admission have been met. Failure to achieve a "B" grade in each of the first 3 graduate level courses will result in the applicant's being dropped as a degree seeking student.

Preparatory course work will not be counted as part of the 3 required graduate level courses.

Preparatory Course Work

To qualify for admission to full graduate status in the MPA Program, applicants must show competence in the common core of public administration knowledge. Generally, this core consists of an understanding of the operation of federal, state, and local government; familiarity with management techniques, and competency in policy analyses and formulation. Students who have received a bachelor's degree in public administration, political science, urban planning or policy science generally have fulfilled this requirement. Students with degrees in other disciplines will need preparatory work before beginning the MPA Program. The preparatory requirements may be satisfied by:

1. Satisfactory completion of appropriate undergraduate level courses selected with the approval of the MPA Coordinator. Not more than 15 hours of such courses shall be taken.

2. Scoring not less-than the fiftieth (50th) percentile on the appropriate subject examinations of the College Level Examination Program (CLEP). The CLEP examinations are available through the testing service of the College.

Academic credit earned in preparatory course work will not count for the total hours required for the MPA degree.

TRANSIENT STUDENT

(Special Nondegree Status)

Transient students must arrange to have written authorization sent to the Dean from their dean, department head, or registrar at the graduate school in which they are enrolled in order to be accepted as a transient student and register in the MPA Program. They must also submit the application for admission and the $10 fee as described in Admission Procedures. If they wish to become degree seeking students, they must request appropriate admission in writing and must submit the necessary document.

READMISSION

Any student in the Graduate Program who did not register during the quarter immediately preceding the quarter he/she intends to reenroll must process a readmission form with the Registrar's Office.

STUDENT RESPONSIBILITY

The student is charged with the responsibility for taking the initiative in meeting all academic requirements and in maintaining a careful check on his/her progress toward earning a degree. The student is responsible for discharging his/her obligations to the business office and the library. Further, the student is responsible for adhering to the rules and regulations pertaining to graduate students in particular and to all students enrolled in a unit of the University System of Georgia.

TRANSFER OF GRADUATE CREDITS

A maximum of 15 quarter hours of graduate credit may be transferred from another institution, provided:

1. each course equates with a course in the curriculum of the MPA Program or is an acceptable elective;
2. the credit was earned in an accredited graduate program;
3. a grade of "B" or better was earned in each course;
4. the credit was earned no more than six years prior to completion of all degree requirements.

PROCEDURES FOR PROCESSING TRANSFER CREDITS

Requests by students to receive transfer graduate credit must be supported by two copies of the graduate transcript showing the transfer credits requested. The formal and final request for receiving transfer credits is part of the Application for Candidacy which the student must process upon the completion of 25 hours of graduate work. This application is obtained in the MPA Coordinator's Office.

Advisement on transfer of credits is routinely provided on the Program of Study form which every degree-seeking student (regular or provisional status) must complete with an adviser in the first quarter of enrollment. Formal approval of transfer credits is granted via the student's Application for Candidacy which requires approval by the student's adviser and the MPA Coordinator.

ACADEMIC STANDARDS

MPA students must maintain a grade point average of 3.0 or above for all graduate work.

The following criteria apply to all degree categories: (1) Grades of lower than "C" will not receive graduate credit; (2) a maximum of two "C's" may be applied to the degree; (3) a student receiving two "C's" or one "F" shall have his/her record reviewed by the MPA Coordinator and the Graduate Council to determine if the student is to be permitted to remain in a degree-status category; (4) a student receiving two "F's" or any three grades below "B" becomes ineligible for a graduate degree.

COURSE LOAD LIMITATION

A full-time graduate student is expected to carry no more than 15 hours per quarter. The course load for the fully employed student should be appropriately reduced in consultation with his/her adviser. A student on academic probation or on Provisional Admission status should carefully plan his/her course load in consultation with the adviser.

WITHDRAWAL, DROPPING, AND ADDING COURSES

Withdrawal is, in the technical sense, dropping all courses and processing a formal withdrawal through the Office of the MPA Coordinator which issues a withdrawal form. A student may withdraw from school at any time during the quarter. Only by formally withdrawing, however, can a student become eligible for the refunds of fees as explained in the College Catalog. The student bears the responsibility of contacting the Coordinator's Office to officially drop a course and obtain the signature of his/her professor. Course withdrawals before midterm are recorded as "W"; any course withdrawals after midterm are recorded with a grade of "F". Adding a course may be accomplished through the Registrar's Office which will process a drop/add slip. Courses may be added only during the late registration days at the beginning of the quarter and not at any other time during the quarter. The student must pay the appropriate fee for the additional course, unless a course comparable in credit hours is being dropped simultaneously.

ADVISEMENT

Upon admission to the MPA Program, each student will be assigned a faculty advisor who will approve scheduling of course work, recommend the student for candidacy, and serve as Chairman of the Student's Comprehensive Examination Committee. Special pre-registration advisement sessions will be held in advance of each quarter's registration. The advisors will interpret the program of studies for the student and help direct the student into a course of study relevant to the Program's standards and student needs.

COURSEWORK REQUIREMENTS

The MPA course of study will consist of 60 hours of Public Administration, Social Science, and Business Administration Coursework (12 courses) plus a 10 hour internship for the pre-service students and a research project for in-service students. The 12 courses will be taken in any combination or sequence approved by the student's advisor, except that all students will complete the core of seven courses noted in the Curriculum Outline that follows:

Core Requirements - Quarter Hours 35

General Administrative Core

PAD 675 Ethics for the Public Administrator
PAD 677 Local and State Budgeting and Finanical Management
PAD 680 History, Scope and Practice of Public Administration
PAD 685 Management of Human Resources in the Public Service
PAD 690 State Government Administration
or
PAD 695 Local Goverment Administration

Analytical Core

PAD 696 Research Methodology I (Research Design and Statistics)
PAD 697 Research Methodology II (Program Evaluation)

Electives - 25 Quarter Hours (Business Electives should not exceed 15 Quarter Hours)

PAD 601	PAD 625	PAD 650	BAD 601	BAD 635
PAD 605	PAD 630	PAD 655	BAD 604	BAD 662
PAD 610	PAD 635	PAD 660	BAD 613	
PAD 615	PAD 640		BAD 640	
PAD 620	PAD 645			

Internship Requirement

Each student will complete a formal internship in public administration with an agency or organization approved by MPA Coordinator. The internship and a companion paper will receive an additional 10 hours of academic credit.

ADMISSION TO CANDIDACY

It will be the responsibility of the student to make application for admission to candidicay after the completion of all prerequisite courses and 25 hours of 600-level graduate course work. This application will be in three copies to the faculty adviser. Admission to candidacy is contingent upon verification that the student has attained a "B" average in 25 hours of graduate course work and has met all regular admission requirements including:

1. an acceptable score on the Graduate Record Examination General test,
2. completion of all undergraduate prerequisite courses; and
3. removal of provisional admission status, when applicable.

COMPREHENSIVE ORAL EXAMINATION

A final comprehensive oral examination, to be scheduled in a student's final quarter and at least two weeks prior to graduation, is required of all candidates for the Degree of Master of Public Administration. The final examination will be conducted by a committee consisting of the student's faculty adviser as chairman and other members of the graduate faculty appointed by the MPA Coordinator. The date, time, and place of examination will be set by the Coordinator after consultation with the faculty adviser and the student.

The Coordinator shall notify the student, the Committee members, and the Dean ten days prior to the examination concerning the proposed place, date, and time of the examination.

The candidate is expected to demonstrate a thorough understanding of the common core of knowledge in business, economics, and statistics, and adequate competency to discuss advanced material in those areas in which he/she has had graduate work.

GRADUATE COURSE DESCRIPTIONS

PAD 601 Public Policy (5-0-5)

Emphasis on the process by which public policy is formulated, adopted and implemented. Models of policy anlaysis will be examined. Selected case studies drawn from contemporary policy issues will be reviewed in detail.

PAD 605 American National Government (5-0-5)

Emphasis on the process within the U.S. system of federalism. Issues arising from conflict between branches of government and between levels of government will be reviewed and analyzed.

PAD 610 Contemporary Issues in American Public Administration (5-0-5)

Analytic perspectives are offered on major current issues in American Public Administration. Such topics as changing normative bases of administration, bureaucratic representativeness, administrtive reorganization procedures, the "New Accountability" will be addressed.

PAD 615 Urban Government (5-0-5)

Focuses on an analyses of administrative and organizational activities of metropolitian governments. Special attention is given to alternative forms of metropolitan government, regional councils of governments and selected problems of metropolitian areas.

PAD 620 Urban Development Issues and Problems (5-0-5)

Emphasis placed in the interaction of economic, social and political factors which shape urban development. Selected geographic areas and cases in planning will be analyzed.

PAD 625 Planning Resources (5-0-5)

A study of the scope, theories, resources and politics of urban, regional, state and national planning practiced in the USA today.

PAD 630 Social Welfare Planning and Administration (5-0-5)

Focuses on issues of social welfare policy in the U.S. and on the role of federal, state and local governments in administering social programs. Selected cases will be reviewed.

PAD 635 Intergovernmental Relations (5-0-5)

Constitutional, political, economic and institutional relationships among federal, state and local governments are reviewed.

PAD 640 Seminar in Constitutional Law (5-0-5)

Reading, research and group discussions on constitutional law, politics and the judicial function are emphasized. Significant legal cases are reviewed.

PAD 645 Administrative Law (5-0-5)

Designed to introduce administrators to the field of administrative law and the legal perspectives from which such law originates. Topics include 1st and 4th Amendment considerations, Freedom of Information Act, the Privacy Act and the Administrative Procedure Act.

PAD 650 Administration of Justice (Criminal Justice) (5-0-5)

Examines the legal structure which supports the criminal justice system. Current and future problems of law enforcement will be discusssed including judicial processes, community relations, civil liberties.

PAD 655 Economic Politics (5-0-5)
Examines the role of non-elected officials and non-government institutions in shaping public policies. Special attention given to cases drawn from contemparary issues.

PAD 660 Directed Readings (5-0-5)
Individualized research focusing on problems in public administration. Topic to be mutally designed by instructor and student.

PAD 675 Ethics for the Public Administrator (5-0-5)
The ethical standards of the public administrator in an environment demanding problem solving is examined against a background of American political, social, and economic ideas.

PAD 676 Organizational Theory (5-0-5)
Entails a systematic study of the major behavioral processes of complex organizations from the viewpoint of the professional participant. Major emphasis is placed on Macro perspectives of organizations, their management, and environments derived from historical and contemporary explorations.

PAD 677 Local and State Budgeting and Financial Management (5-0-5)
The means by which local and state governments raise and spend money is examined from an administrator's viewpoint.

PAD 680 History, Scope and Practice of Public Administration (5-0-5)
A Survey of the Evolution of Public Administration in the United States.

PAD 685 Management of Human Resources in the Public Service (5-0-5)
Public personnel management from a development and normative perspective; an examination of its new role as a force for social and economic equity.

PAD 690 State Government Administration (5-0-5)
A seminar designed to study selected aspects of state government policies, politics, administration, and change.

PAD 695 Local Government Administration (5-0-5)
A seminar on selected topics of local government policies, politics, administration, and change.

PAD 696 Research Methodology I (3-4-5)
An introduction to research design with emphasis on the use of computer program packages for statistical analyses. Special attention given to methods of data collection with emphasis on survey research.

PAD 697 Research Methodology II (3-4-5)
Focus on the design and implementation of public policy evaluation research and on nonstatistical computer application in the public sector.

PAD 700 Internship (0-20-10)

BUSINESS ELECTIVES (No more than 15 hours)

BAD 601 Macroeconomics Analysis (5-0-5)
National Income Accounting. Determinants of National income, employment, price level and growth rates. Prerequisite: Principles of Economics competency.

BAD 604 Business Relations with Government and Society (5-0-5)
Business environment with consideration of the economic, legal and social implications for policy making.

BAD 613 Administrative Communication
The role of communication in effective management; a study of foundation theory and principles for practical application; communiction problems within, between, and among organizations, industrial and other groups; forms, media and channnels available for conducting effective communications in business and industry.

BAD 630 Managerial Cost and Control (5-0-5)
The study of physical and monetary input/output relationships and use of such cost studies for managerial strategy, planning, and control. Prerequisite: Principles of Accounting Competency.

BAD 635 Accounting for Not-for-Profit Organizations (5-0-5)
Basic concepts and techniques for fund accounting for governmental, educational, religions, and charitable organizations; inclusive of management reporting problems. Prerequisite: Principles of Accounting Competency.

BAD 662 Human Behavior in Organizations (5-0-5)
Contributions and limitations of the behavioral sciences in the development of modern organization theory. Prerequisite: Principles of Management.

DEPARTMENT OF SOCIAL WORK AND APPLIED SOCIOLOGY

Roosevelt Green
Joenelle Gordon
Otis Johnson (on leave)
Lillian Reddick
Ella H. Sims
David M. William (on leave)

Jeannette Jenkins, Secretary

The Department of Social Work and Sociology seeks to provide academic preparation for the profession of social work and the disciplines of sociology, and gerontology. There is a conscious effort made to integrate teaching, research, and community service through the activities of the faculty and students in the department. The departmental curriculum, internships and field experience are designed to develop scholarly and professional attitudes, values, and practice in social work, sociology and gerontology.

The social work program is fully accredited by the Council on Social Work Education (CSWE) and offers the Bachelor of Social Work (BSW) degree. A Bachelor of Science degree is offered in Sociology. The department offers minors in the field of social work, sociology and gerontology.

SOCIAL WORK CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107 and Business Administration 201 ..... 10 hours
- Ten-hour laboratory sequence from the following:
  - Biology 123-124 or 126-127
  - Chemistry 101-102
  - Physics 201-202 ..... 10 hours

Area III—Social Sciences: 20 hours required
- Political Sciences 200 ..... 5 hours
- History 102-202-203 ..... 15 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- Psychology 201 ..... 5 hours
- Sociology 201 ..... 5 hours
- Social Work 250 ..... 5 hours
- Sociology 215 ..... 5 hours
- Sociology 200 ..... 5 hours
- Sociology 225 ..... 5 hours

Additional Requirement:
- Physical Education ..... 6 hours
- Humanities 100 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 95-99 quarter hours

Major Requirements: 60 quarter hours as specified
- Social Work 305-310-320-333-334-335-440 ..... 35 hours
- Two of the following:
  - Social Work 406, 410 or 430 ..... 10 hours
- Social Work 451-452-475 ..... 25 hours
- Sociology 300 ..... 5 hours

Minor Requirements ..... 25-29 hours

COMPREHENSIVE EXAMINATION FOR SOCIAL WORK MAJORS

Senior social work majors are required to take an institutional examination as the comprehensive examination in their field and the aptitude section of the Graduate Record Examination.

SOCIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences:
- Mathematics 107 and BAD 201 ..... 10 hours
- Ten-hour laboratory sequence from the following:
  - Biology 123-124 or 126-127
  - Chemistry 101-102
  - Physics 201-202 ..... 10 hours

Area III—Social Sciences: 20 hours required
- History 102 ..... 5 hours
- History 202-203 ..... 10 hours
- Political Science 200 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- SPE 201 ..... 5 hours
- GRN 201 ..... 5 hours
- PSY 201 ..... 5 hours
- SOS 111 ..... 5 hours
- SOC 200 ..... 5 hours
- SOC 201 ..... 5 hours

Additional Requirements:
- Physical Education ..... 6 hours
- Humanities 100 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 91-92 quarter hours

Major Requirements: 50 hours as specified	
Sociology 215, 225, 300, 315, 375, 455, 460	32 hours
Social Work 305-320	10 hours
Anthropology 201	5 hours
Minor Requirements	30 hours
General Electives	15 hours

COMPREHENSIVE EXAMINATION FOR SOCIOLOGY MAJORS

Senior sociology majors are required to take the Advanced Test in Sociology of the Graduate Record Examination (GRE) as the comprehensive exit examination in their field.

MINORS IN SOCIAL WORK, SOCIOLOGY AND GERONTOLOGY

The Department of Social Work and Sociology offers the following minors:

**Social Work*	Quarter Hours
SWK 305	5
SWK 320	5
SWK 310	5
SWK 440	5
Elective (SWK 406, 410 or 430)	5
	25

Sociology	Quarter Hours
SOC 201	5
SOC 215	5
SOC 225	5
SOC 315	4
SOC 455	5
SOC 460	5
	29

Gerontology	Quarter Hours
GER 201	4
GER 301	5
GER 302	5
GER 320	5
GER 410	5
GER 475	5
	29

*Social Work 250—Introduction to Social Welfare is a prerequisite to entering the minor. It is listed in Area IV of the Social Work major.

DESCRIPTION OF COURSES

SOCIAL WORK

250. Introduction to Social Welfare. (5-0-5)
This introductory course covers the historical development of social welfare measures and programs. Basic social welfare concepts and terminology are introduced. The broad range of social welfare efforts to resolve social problems is reviewed. A framework for analysis and assessment of social problems is presented and a special effort is made to help students develop beginning skills in the analysis of social welfare policies and programs. *Fall and Spring.*

305. Introduction to Social Work Practice. (4-2-5)
This is an introduction to the professional practice of social work. The student examines the goals, guiding philosophy, basic assumptions of the profession. The generalist problem-solving practice model is introduced. A survey of practice settings is made and attention is given to the development of beginning practice-focused analytical skills. Prerequisite: SWK 250. *Winter.*

310. Human Behavior and the Social Environment. (5-0-5)
A course designed to examine the reciprocal relationship between man and his environment and the effects of this relationship on one's physical, emotional, and social development. Emphasis will be placed on facilitating human adaption to internal and external stress throughout the life cycle. Prerequisite: SOC 201, PSY 201 and SWK 250. *Fall and Spring.*

SOC/SWK 320. Minorities and the Social Environment. (5-0-5)

333. Interventive Methods I. (4-2-5)
A course designed to develop and sharpen interpersonal skills. The student learns to use conversation, observation and analytical helping skills in a variety of roles played by the generalist social worker. The course presents the student with a wide variety of interview situations in which he must demonstrate a high degree of competency. Prerequisite: SWK 305. *Fall.*

334. Interventive Methods II. (4-2-5)
This course is the second course in a sequence of three designed to teach social work students problem solving skills using the systems approach. The focus of the course will be on intervention with small groups and families. Emphasis will be placed on practice approaches, treatment modalities, identification and assessment of problems and implementation of treatment plans. Prerequisites: SWK 250, 305, 310 and 333.

335. Interventive Methods III. (4-2-5)
A sequel to SWK 334 with the main thrust on neighborhood and community need. It is predicated on the concept that wherever there is widespread human need or suffering there is a breakdown of some aspect of social system. Using multiple roles of the generalist, particularly data gatherer, analyst, consultant, mobilizer, and advocate, the students are taught interventive methods to correct system dysfunction and its impact on people. Prerequisite: SWK 250, 305, 310, 333, and 334.

406. Child Welfare. (4-2-5)
This course is designed to give the Social Work student a comprehensive exposure to the concept of child welfare as a societal concern, and as a field of practice in social work. An historical perspective will be discussed in reference to how and why child welfare services developed. There will also be in depth discussion of current child welfare issues and services. Prerequisite: SWK 250, 305 and 310.

410. SWK/GRN. Services to the Elderly. (4-2-5)

A course designed for students going into public or private agencies serving the elderly. Emphasis will be placed on the social, economic, and health needs of the elderly with attention to delivery systems that work. New knowledge, research, and actual projects will be studied when practicable. Prerequisites: SWK 250, 305 and 310.

430. SWK/SOC. Alcohol and Drugs Studies. (5-0-5)

A course focusing on the various forms of alcohol and drug use with emphasis on the stages of harmful dependence and addiction. There will be an examination of the legal and social implications of addiction, as well as approaches to treatment and rehabilitation. Prerequisites: SWK 250, 305, 310.

440. Social Welfare Policy and Services. (5-0-5)

This is a study of the development and administration of social welfare policies and services which society establishes to provide for the needs and general well-being of the population. An analytical and critical assessment of the social welfare system is made to facilitate an understanding of the relationship between social values, political and economic influences, and the formulation and implementation of social welfare policies and programs. Prerequisite: SWK 250 and 305.

451. Field Experience I. (0-30-10)

Each student will work in a social service setting a minimum of 30 clock hours per week. It is designed for optimal learning experience with clients, agencies and the community. It is to increase student knowledge and ability under professional supervision. There will be a weekly meeting with the Field Coordinator. Restricted to social work majors. *Winter.*

452. Field Experience II. (0-30-10)

This is an advanced field experience wherein greater proficiency and additional skills are expected from the student. The student must demonstrate competency in a variety of roles played by the generalist social worker. Student will take SWK 475 concurrently. Prerequisite: SWK 451. *Spring.*

475. Senior Seminar. (5-0-5)

This is a required course taken concurrently with SWK 452. It is designed to integrate classroom learning, basic theory, professional journal reports and life experience with the student's experience in the field. Prerequisite: SWK 451. *Spring.*

SOCIOLOGY (SOC)

200. Social Statistics. (5-0-5)

An introduction to statistical methods relevant to sociological research, social work theory and practice, and the social sciences in general. The integration of "user friendly" statistical software packages in the social sciences is given special emphasis, e.g., CHIPENDALE, SHOWCASE. Prerequisite: MAT 107. Winter.

201. Introduction to Sociology. (5-0-5)

An analysis of contemporary society and North American culture, its major insititutional forms (the family, religion, education, economic and political systems). *Fall, Winter, Spring.*

215. The Family. (5-0-5)
The role of the family in the development of the individual; family formation and disintegration; cross-cultural and sub-cultural variations in family structure and experience; the future of the family. Prerequisite: SOC 201. *Fall, Spring.*

225. Modern Social Problems. (5-0-5)
A survey and analysis of social problems, their interrelationships and linkage to social institutions in contemporary North American society. *Fall, Spring.*

235. The Sociology of Education. (5-0-5)
A focus on education as a key socializing institution; the social and cultural context of learning: the family, school, peer groups, neighborhood; the school as a mechanism of control and training; the impact of gender, social class, and ethnicity on learning and teaching.

260. The Sociology of Medicine and Health Care. (5-0-5)
The dynamics of health behavior; social causes and consequences of disease; an analysis of the development and social organization of health care institutions and professions. Issues of cost, the quality and inequalities of health care delivery.

300. Social Research Methods (5-0-5)
The methods and techniques of social science research; research design, methods of data gathering and analysis; sampling and survey research techniques, interpretation and presentation of research findings. Prerequisite: SOC 200. *Fall, Spring.*

315. Criminology. (5-0-5)
Crime and the criminal in modern, especially, urban society; a sociological examination of the causes of crime, and its impact on major social institutions; methods of treatment and preventive programs. *Fall.*

320. Minorities and the Social Environment. (5-0-5)
Examines the problems faced by minority groups in American society, especially where skin color and language pose social, cultural, and economic barriers. Conflicts between dominant public attitudes and minorities, and conflicts among minority groups are examined for Black Americans, Puerto Ricans, Native Americans, Chicanos, and other sizable ethnic groups. Prerequisite: SWK 250 or SOC 201. *Winter.*

350. The Sociology of Work and Occupations. (5-0-5)
The meaning of work; occupational choice, development and career socialization; occupational, corporate cultures and lifestyles; the social world and hierarchy of the work place; cross-cultural analysis of work and management styles.

375. The Sociology of Religion. (2-0-2)
The analysis of religion as a social institution and cultural phenomenon; cross-cultural studies of religious belief, symbol and ritual; the role and future of religion in secular society.

395-396. Internship. (0-10-0)
An individually designed course-project involving off-campus study, research and, where applicable, work in a public or private agency. A student will be under joint supervision by the sponsoring agency and his or her faculty advisor; a stipend may be arranged for some work-related projects. The 10 credit hour course may be taken in one quarter, or in two consecutive quarters, 5 credit hours per quarter.

403. Individual Study and Independent Research.
Provides an opportunity for students to arrange independent reading or research in selected areas of sociological interest. Supervision required by a department member.

455. Contemporary Sociological Thought. (5-0-5)
Examines the various schools, perspectives, and theories current in sociology. Antecedents of contemporary theories from the classical works of, especially, Marx, Durkheim, Freud, Weber are examined and applied in assessing current works of national prominence. Prerequisite: SOC 201. *Spring.*(*)

460. Seminar on the Black Experience. (5-0-5)
Study of historic and current trends in selected sociological frames of reference of experiences encountered by Black people in the United States. The course will emphasize social movement and social change; urban life, institutional forms (family, religion, education), political and economic struggles and achievements. *Winter.*

GERONTOLOGY (GER)

201. Introduction Gerontology. (4-0-4)
General introduction to gerontology with emphasis on the normal activities of aging. Review of current studies on the roles, activities, and status in the later years, including income status and needs—as worker, retiree, users of leisure, family member.

GRN/PSY 302. Psychology of Aging. (5-0-5)
This class will explore the general psychological effects of aging on the populace of the United States of America. A comparison of aging and its effects on the populace of several other nations will also be explored. Accepted and/or often used terms to describe chronological, physiological and psychological aging will be compared as well as the concept of ageism and some of its effects. Prerequisite: PSY 201.

301. Biological and Physiological Aspects of Aging. (5-0-5)
The general biology of aging; physiological changes with age; theories of biological and physiological aging; factors affecting longevity, genetic aspects of aging.

320. Black Aging. (5-0-5)
Historical, demographic, and socio-economic profiles of Black aged. An analysis of major problems encountered by Black elderly persons with a review of issues such as income, health, housing, and transportation. The unique aspects of Black religion, family ties, language habits, coping behaviors, and population distribution will be emphasized.

401. Consumer Economics and Law for the Aging. (2-0-2)
An examination of age related consumer and legal concerns. This will be a practical course including exploration of such topics as wills, and other legal matters, generic drugs, health care costs, food and nutrition, budget management, fraud and consumer protection laws.

410. GRN/SWK. Services to the Elderly. (4-2-5)
A course designed for students planning to work in public or private agencies serving the elderly. Emphasis will be placed on the social, economic, and health needs of the elderly with attention to delivery systems that work. New knowledge, research, and actual projects will be studied where practicable.

420. Death and Dying. (2-0-2)
A study of the literature expressing historical, social, and cross-cultural attitudes towards death and dying. Designed to help students understand death in its social context.

430. Physical Fitness and Recreation for the Elderly. (2-0-2)
This course will focus on the physiological, psychological, and sociological values of physical exercise and recreation for the older adult. Students will have an opportunity to develop physical fitness and recreational programs for healthy, community living adults and the less vigorous or institutionalized adult.

451. Field Experience. (0-20-5)
The student will be assigned to work under professional supervision in a facility for older people, such as a home for the aged, senior citizens activity center, or housing development.

475. Seminar in Gerontology. (5-0-5)
This course is designed to integrate theoretic classroom learning with practical experience gained by the student in the field.

465. Senior Seminar in Sociological Theory. (5-0-5)
Designed principally for juniors and seniors who wish to pursue a graduate degree in sociology (or, for any sociology major who wishes to intensify his or her study in the field). An intensive study of 19th and early 20th century classical theoriests, and their social philosophical antecedents in ancient Indian, Persian, North African, and Greco-Roman cultures. Prerequisite: permission of instructor. *Fall or Winter.*

ANTHROPOLOGY (ANT)

201. Cultural Anthropology. (5-0-5)
An introduction to the study of primitive and traditional societies with a particular focus on cross-cultural comparisons of pre-literate and modern social institutions. The guiding principle in the course is that moderns are more primitive, and primitives are more modern than we think.

SCHOOL OF SCIENCES AND TECHNOLOGY

MARGARET C. ROBINSON, Dean
Carless Lawyer, Administrative Secretary

The School of Sciences and Technology comprises undergraduate programs in Biology, Chemistry; Mathematics, Physics, and Computer Science; Engineering Technology, and Naval Science. It offers Bachelor of Science degree programs with majors in Biology, Environmental Studies, Marine Biology, Medical Technology, Chemistry, Mathematics, Physics, Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, and Computer Science Technology.

The Associate degree programs include majors in Computer Engineering Technology, Marine Science Technology and Chemical Engineering Technology. These programs are designed to train students to become technicians for work as paraprofessionals in industry or for assisting professional engineers.

The School of Sciences and Technology offers minors in Biology, Chemistry, Mathematics, Physics, Computer Science, Naval Science (Marine or Navy Option), Military Science (Army), and in several engineering technologies. The School also offers a certificate program in Industrial Technology Management.

The Biology Program provides access to broad preparation for employment at the level of support personnel, for graduate study in biology, for graduate study in related areas such as environmental sciences or the medical or dental professions.

The Chemistry Program is aimed at providing the fundamental knowledge required for participation in chemically oriented industries, for graduate study for chemistry, or in preparation for medical or dental studies.

The Mathematics Program covers the major areas of mathematics and physics and is designed so that the student can have the opportunity to prepare for a position immediately after graduation, or for continuing with graduate studies. The physics major provides the opportunity for the preparation of student interested in a professional career in physics or an immediately adjacent field or a strong base in physics for students seeking to pursue careers in, for example, medicine, business administration, oceanography, and also those seeking immediate employment in industry, military service, and computer technology.

The Engineering Technology Program prepares students for careers in the technical and engineering fields in the civil, mechanical, and electronics areas. Additionally, the Engineering Technology program prepares and trains persons who plan to teach trade and vocational subjects in secondary and vocational schools.

The Naval Science Program gives young men and women the choice of attending college in an academic discipline of their own choice while at the same time receiving military training that culminates with them being commissioned as military officers in the Navy or Marine Corps upon completion of the baccalaureate degree.

The Army Reserve Officers Training Program enhances a student's education by providing unique leadership and management training along with practical

experience. It helps a student develop many of the qualities basic to success in the Army, or in a civilian career. ROTC gives students a valuable opportunity to build for the future by enabling them to earn a college degree and an officer's commission at the same time.

SCIENCES AND TECHNOLOGY (SST)

100. Introduction to Sciences and Technology. (2-1-3)
This course is required for all freshmen majoring in science and technology disciplines. It is designed to expose them to a series of experiences, strategies and techniques that will assist them in achieving academic excellence. The course will also introduce students to the fundamental concepts and applications of microcomputers.

101. Cooperative Education Seminar. (1-0-1)
Designed to prepare co-op students in developing a sense of appreciation for co-op work experience. Covers the rudiments of job interviewing, test consciousness and career planning. *All quarters.*

202-300-301-400. Cooperative Education Work Experience. (0-0-5)
Student works full-time in industry under the supervision of the Director of Cooperative Education. Each course has specific written requirements. *All quarters.*

405-406-407. Cooperative/Internship Experience. (0-0-5)
Provided to accommodate students experiencing summer internships provided by the College as well as those students enrolled in the Cooperative Program. It may be substituted for SST202, 300, 301 or 400. *Summer.*

101. Introduction to Computer Literacy
This computer-based course is designed the fundamental concepts and applications of computers to students who have little or no previous experience with computers. Areas covered include keyboard use, information storage, memory, files, text editing and work processing, and database use and management. The course is opened to all majors.

DEPARTMENT OF BIOLOGY AND LIFE SCIENCE

FRISSELL R. HUNTER, Head

C. Obi Emeh
Matthew Gilligan
Hetty B. Jones
P. V. Krishnamurti
Thomas R. Kozel
Govindan K. Nambiar
Joseph P. Richardson
Harpal Singh
Bernard L. Woodhouse

Elizabeth Jenkins, Secretary

The aims of the Department of Biology are: (1) to provide for all students that knowledge which is essential to an understanding of the biological basis of living; (2) to provide professional training for persons interested in pursuing health careers such as medicine, veterinary medicine, dentistry, pharmacy, and paramedical careers such as medical technology, nursing, physical therapy, medical illustration, medical social work, and medical transcription; (3) to provide preprofessional study for persons interested in careers such as industrial and biological research, public health, college-level teaching, medical school teaching, secondary school teaching, marine biology, and environmental studies.

To realize these aims, the Department of Biology offers courses leading to the degree of Bachelor of Science with majors in Biology, (Premedicine or Preprofessional), Environmental Studies, Marine Biology, Medical Technology, and the Associate of Science degree in Marine Science Technology.

Plan of Study

Biology 123-124 is designed for non-science majors as a part of the general curriculum. The Biology Major: Biology 128, 200, 201, 202, 203 comprise the basic modern biology core requirements for all students majoring in Biology, and who desire training preparatory to either medical and paramedical careers or graduate study. Subsequent to the sequential completion of the Biology Core, students are required, in counsel with academic advisors, to select an option of biology electives according to their interest and desired area of concentration. The Biology Electives Option becomes a part of the student's formal record as requirements for graduation filed in the Department.

Students interested in paramedical (Health) careers satisfy the two-year basic Modern Biology Core sequence and science cognates according to specific requirements of selected specialized training schools. Students are required to plan health careers curriculums with an assigned advisor.

For the major at least thirty-five quarter hours of junior and senior level courses are required. For the minor, twenty-five quarter hours of junior and senior level courses are required.

COMPREHENSIVE EXAMINATION

Biology majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the Department Major Comprehensive Examination.

BIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

College Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107-108 ..... 10 hours
- Chemistry 101-104 ..... 10 hours

Area III—Social Sciences: 20 hours required
- Psychology 201 ..... 5 hours
- Political Science 200 ..... 5 hours
- History 102-202 or 203 ..... 10 hours

Area IV—Courses Appropriate to Major: 30 hours required
- Physics 201-202-203 ..... 15 hours
- Biology 120-128-200-201-202-203 ..... 15 hours

Additional Requirements:
- Physical Education ..... 6 hours
- SST 100 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 53 hours as specified
- Biology 301-303-306-401-402-430-431 ..... 28 hours

Major Options ..... 15 hours
- Zoology 304-315-318-326-411
- Botany 302-304-308-328-406
- Molecular Biology 304-351-407-420-425
- Ecology 309-313-328-332-400
- Microbiology 304-407-425-426-427
- Pre-Medicine 304-318-326-407-411
- Biotechnology 490, 491, 492, 493, 494, 498

Specific Electives:
- Chemistry 303-307-308-331-404 ..... 25 hours
- Mathematics 212-213 ..... 10 hours
- Modern Foreign Language ..... 15 hours
- HMN 233 or 234 or CSC 250 ..... 5 hours

Biology Minor Requirements: 29 hours
- Biology 301-303-304-306-307-309-328-332-401-402

MARINE BIOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 99 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107-108 ..... 10 hours
- Chemistry 101-104 ..... 10 hours

Area III—Social Sciences: 20 hours required
- Psychology 201 ..... 5 hours
- Political Science 200 ..... 5 hours
- History 102-202 or 203 ..... 10 hours

Area IV—Courses Appropriate to Major: 30 hours required
- Physics 201-202-203 ..... 15 hours
- Biology 128-200-201-203 ..... 12 hours
- Marine Biology 215 ..... 3 hours

Additional Requirements:
- Physical Education ..... 6 hours
- SST 100 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Requirements: 62 hours as specified
- Marine Biology 219-280-382-481-484-485 ..... 29 hours
- Biology 301 or 303-306-400-430-431 ..... 23 hours
- Humanities 233 or 234 ..... 5 hours

Specific Electives:
- Chemistry 303-307-308 ..... 15 hours
- Mathematics 212 ..... 5 hours
- Marine Biology 209-332-334 ..... 10 hours
- Geology 300 ..... 5 hours
- Computer Science ..... 8 hours

ENVIRONMENTAL STUDIES CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107-108 ..... 10 hours
- Chemistry 101-104 ..... 10 hours

Area III—Social Sciences: 20 hours required
- Psychology 201 ..... 5 hours
- Political Science 200 ..... 5 hours
- History 102-202 or 203 ..... 10 hours

Area IV—Courses Appropriate to Major: 30 hours required
- Physics 201-202 ..... 10 hours
- Biology 128-200-201-202-203 ..... 15 hours
- Environmental Studies 201 ..... 5 hours

Additional Requirements:
- Physical Education ..... 6 hours
- General Education 101 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 108 quarter hours

Major Requirements: 63 hours as specified
- Biology 301-303 ..... 10 hours
- Physical Geography 204 ..... 5 hours
- Geology 300 ..... 5 hours
- Environmental Studies 301-302-304-305-306 (or Bio. 400) 365 or 400-403-405-410 ..... 43 hours

Specific Electives: 45 quarter hours
- Chemistry 303-304-307 ..... 15 hours
- Mathematics 212 ..... 5 hours
- Economics 201 ..... 5 hours
- Foreign Languages ..... 15 hours
- Computer Science 150 ..... 5 hours

MARINE SCIENCE TECHNOLOGY PROGRAM
A.S. Degree: 110 quarter hours required

Marine science technologists are persons whose education and training allows him/her to work wtih marine scientists in the laboratory or in the field. They are responsible for collecting, processing or analyzing physical, chemical, geological or biological data. They are expected to be able to prepare, maintain and use field and laboratory equipment for marine science studies including electronic and microprocessor-controlled devices and computers. Chemical, biological and computer analytical skills are often needed by technicians in the marine sciences.

Area I—Humanities: 20 hours required
- English 107, 108, 109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 108, 109 ..... 10 hours
- Chemistry 101, 104 ..... 10 hours

Area III—Social Sciences: 20 hours required
- History 101, 202 ..... 10 hours
- Political Science 200 ..... 5 hours
- Psychology 201 ..... 5 hours

Area IV—Courses Appropriate to Major: 30 hours required

BIO 123, 124	10 hours
MBI 215 Marine Biology	5 hours
MBI 280 Oceanography	5 hours
MBI 219 Marine Analysis Techniques	4 hours
MBI 382 Marine Invert. Zool. or MBI 485 Ichthyology	5 hours
STO 100 Introduction to Sciences and Technology	3 hours

Additional Requirements:

PHY 201 or 202 or 203 Physics	5 hours
CHE 203 Analytical Chemistry	5 hours
CSC 125 Introduction to Computer Science	3 hours
CSC 150 or 164 or 215 Computer Programming Language	5 hours

Second Year: 49 hours required

Physical Science 203	5 hours
Physical Geography 204	5 hours
Chemistry 115	1 hour
Marine Biology 209-280	7 hours
Marine Biology 291-292-293-294	20 hours
Marine Biology 332	3 hours
History 202 or 203	5 hours
Physical Education	3 hours

DESCRIPTION OF COURSES

BIOLOGY (BIO)

120. Freshman Biology Seminar. (2-0-2)

Topics in the Biological Sciences, emphasizing the integration of physical and chemical principles with biology. Discussions will include quantitative aspects such as units of measurement, interpretation of experimental results, handling of graphical data, and the role of chemical reactions in the control of plant and animal growth and development. *Fall, Winter, Spring.*

123-124. General Biology (3-4-5)

An introductory course for non-science majors which deals with the fundamental principles of plant and animal life. BIO 123 is a prerequisite to BIO 124. *Fall, Winter, Spring.*

128. Principles of Biology. (3-4-5)

Presentation of biology in broad perspective, to include such topics as origin of life, reproduction, heredity, evolution and interrelationship of living things to their environment. Prerequisite: CHE 101. *Spring, Fall.*

200. Molecular and Cellular Biology. (3-4-3)

Introduction to cell composition and fine structure, bisynthesis of macromolecules, enzymes structure and function, respiration, photosynthesis, transport, and the molecular basis of heredity. Prerequisite: BIO 128. *Fall.*

201. Organismal Biology. (3-4-3)

Relates Molecular and Cellular biology to the organismal concept, emphasizing structural and functional aspects of whole organisms (vertebrate animals and vascular plants), their development, life histories, behavior, diversity and evolution. Prerequisite: BIO 200. *Winter.*

202. Biological Organization and Control. (3-4-3)

Concepts of Mendelian genetics, morphology, growth and development, reproduction, tissue and organ structure, neural and endocrine control mechanisms, feed-back and cybernetics are discussed. Prerequisite: BIO 201. *Spring.*

203. Introduction to Ecology. (2-4-3)

An introductory study of concepts and principles underlying the interrelationship of plants and animals to the environment. Laboratory experiences to involve field studies coordinates with laboratory and field methods of ecological analysis. Prerequisite: BIO 202. *Spring.*

204. Environmental and Evolutionary Issues. (2-0-2)

Major issues facing mankind from a biological perspective such as overpopulation, food supply, pollution, nuclear energy utilization, genetic basis of race, medical and hereditary issues, etc. *Fall, Winter, Spring.*

205. Selected Topics in Modern Biology. (2-0-2)

Current topics and problems which confront or support the future well-being of the human population such as the Sickle Cell Anemia problem, organ transplantation, cryosurgery, utilization of synthetic food products, aquaculture, conception and contraception, aging, etc. *Fall, Winter, Spring.*

206. Introduction to Life Chemistry. (3-0-3)

Interdisciplinary approach to study of compounds found in living organisms, their biochemical reactions and their significance to living processes. Fundamental concepts emphasizing the contributions of biochemistry and biochemical processes to an understanding of modern biology. Prerequisites: CHE 101, 104. *Fall, Spring.*

207. Biology of Aging: Understanding the Golden Years of Life. (2-0-2)

A study of the human body, physiological and emotional changes during the aging process, and some practical methods of adjusting to these changes. *Fall, Winter, Spring.*

216. Vertebrate Zoology. (3-4-5)

An intensive survey of the morphology, taxonomy, physiology, behavior, and ecology of the chordates, with attention given to the basic principles and theories. The laboratory will consist of an introduction to comparative chordate anatomy. Prerequisites: BIO 203, ENS 201. *Winter.*

300. Basic Medical Lab Techniques. (1-4-3)

An introduction to basic lab procedures involved in urinalysis, hematology, blood banking, serology, parasitology and tissue examination. Principles and techniques involving colorimetry, spectrophotometry, electrophoresis and chromatography are to be emphasized. Prerequisite: BIO 202. *Spring.*

301. General Botany. (3-4-5)

An introduction to general principles of plant life with special emphasis given to cellular organization and control, inheritance, physiology, development, reproduction, and evolutionary relationships of flower plants. Prerequisite: BIO 201, 203, MBI 215. *Spring.*

302. Field Botany. (3-4-5)

A study of flowering plants common to this locale, including the identification, classification, and preservation of plant specimens. Prerequisite: BIO 301.

303. Principles of Genetics. (3-4-5)

Fundamental principles of Genetics: Variation, heredity, physical basis of mendelian inheritance, expression and interactions of genes, sex-linkage, linkage mutation and extra chromosomal inheritance basic concepts related to biochemical Genetics and population Genetics. Prerequisites: BIO 202 or 203, CHE 307. *Spring.*

304. Biological Histochemistry and Microtechnique. (3-4-5)

Theory and application of modern techniques and instrumentation to biological problems including histological preparation and preservation of biological materials. Prerequisite: BIO 307 or 318, CHE 307. *Spring.*

306. Microbiology. (3-4-5)

An introduction to fundamental concepts and techniques of microbiology; bacterial anatomy and physiology, principles of microbial growth, nutrition, and metabolism. Prerequisites: BIO 203, CHE 307. *Winter.*

307. Human Anatomy and Physiology. (3-4-5)

A detailed study of the location and functions of the organs of the human body. Prerequisites: CHE 307, BIO 203. *Fall.*

308. Plant Morphology and Structure. (3-4-5)

A study of morphology of certain non-vascular and vascular plants stressing identification, life histories, ecology and evolutionary development. Prerequisite: BIO 302. *Fall.*

309. Ecology. (3-4-5)

The structure and function of ecosystems in regard to energy flow, nutrient cycling population growth and regulation, and community organization and dynamics. Man's impact on ecosystems and resulting social problems. Laboratory and field studies. Prerequisite: BIO 203. *Spring.*

310. Food Microbiology. (3-4-5)

Introductory microbiology course emphasizing the following: Classification and nomenclature of microorganisms, foodborne disease hazards and food safety; food processing, preservation, and quality control, and intentional/unintentional additives. Prerequisites: BIO 203, CHE 308. *Fall.*

313. Urban Health. (3-0-3)

An introduction to a variety of environmental and occupational health hazards of an urbanized society. Topics covered include biological and health effects of environmental pollutants, disease vector, food and housing sanitation, occupational health hazards. Social psychological stresses as well as environmental planning and management. Prerequisite: Junior Standing. *Winter, Summer.*

315. Invertebrate Zoology. (3-4-5)

A study of major phyla of invertebrate animals, morphology, physiology, life histories and taxonomic relationships of selected responsibilities of the groups. Prerequisites: BIO 203, 206. *Fall.*

318. Vertebrate Structure and Function. (3-4-5)

(Amalagamation of Comparative Vertebrate Anatomy and Histology of Vertebrates). A comparative study of the organ systems of selected vertebrates with emphasis given to the gross anatomy of the cat; histological organization and function of vertebrate organs. Prerequisites: BIO 203. *Fall.*

324. Plant Anatomy. (3-4-5)
A general consideration of the anatomy of seed plants with special emphasis on the angiosperms. Prerequisite: BIO 308. *Winter.*

326. Vertebrate Embryology. (3-4-5)
A study of the embryological development of vertebrates including fertilization, cleavage and origin of organ systems. Prerequisite: BIO 304. *Spring.*

328. Field Ecology. (3-4-5)
An advanced field course emphasizing population ecology; methods of measuring plant and animal populations, demographic analysis and movements of organisms. Prerequisite: BIO 301. *Spring.*

332. Principles of Biostatistics. (3-4-5)
An introduction to the reasoning and applications of statistics in planning experiments and in analysis and interpretation of biological data. Special emphasis given to population statistics, samples and variates; summary of observed experiments and nonparametric significance tests. Prerequisite: BIO 203. *Fall.*

350. Transmission Electron Microscopy. (1-4-3)
An introduction to instrument theory and specimen preparation for transmission electron microscopy. Emphasis upon techniques of fixation, embedding, ultramicrotomy, staining and photography. Prerequisites: Junior Standing and approval of Department Head. *Winter.*

351. Molecular Biology. (3-4-5)
Detailed analysis of structure and ultrastructure of the cell; bio-chemistry, biophysics, physiology and molecular genetics. Prerequisite: CHE 308. *Spring.*

400. Physiological Ecology. (3-4-5)
A study of the anatomical, biochemical, and physiological adaptation of plants and animals to specific environments. Emphasis on physiological problems faced by organisms common to the local salt marsh and marine environments. Design and completion of individual research projects including data analysis and presentation. Prerequisites: CHE 307; MBI 215, MBI 382. *Winter.*

401. General Physiology. (3-4-5)
A study of functional physico-chemical occurrences in living organisms. The physiological roles of water, chemical constituents, pH, diffusion, osmosis, permeability, surface phenomena, viscosity, temperature, oxidation-reduction enzymes, and bioelectricity will be considered. Prerequisites: BIO 203, 206; CHE 308, PHY 202; MBI 215. *Fall.*

402. Animal Physiology. (3-4-5)
A study of vertebrate systematic physiological processes. Topics to be considered are: nervous and endocrine control mechanisms, muscle contraction, digestion, circulation, respiration, bioenergetics and metabolism, excretion and receptor physiology. Prerequisites: CHE 308, BIO 401. *Winter.*

406. Plant Physiology. (3-4-5)
An introduction to cellular and organismal functions important in the life of green plants with emphasis on the physical and chemical basis of the observed properties and processes. Prerequisites: BIO 301, 302; CHE 308. *Fall.*

407. Principles of Immunobiology. (3-4-5)
An introduction to the study of infection and immunity in disease, cell mediated and humoral immunity, immunochemistry and immunological methods. Prerequisite: BIO 306. *Spring.*

411. General Pharmacology I. (3-4-5)

A study of the general principles of Pharmacology, prescription writing, drug prices, cardiovascular drugs, sedatives and hypnotics, alcohol, histamines and antihistamines, analgesic drugs and drugs affecting behavior. Prerequisites: BIO 301, 401; CHE 308. *Winter.*

412. General Pharmacology II. (3-4-5)

Continuation of Biology 411, and includes such topics as general anesthesia, local anesthetics, drugs acting on the gastrointestinal tract, diuretics, chemotherapeutic agents, chemotherapy of certain neoplastic diseases, gonadal hormones, insulin and oral hypoglycomic agents, poisons and antidotes, and pesticides. Prerequisite: BIO 411. *Spring.*

418. Physiological Chemistry. (3-4-5)

Fundamentals of biological chemistry with emphasis upon chemical structure, the properties of enzymes, intermediary metabolism, energy transformation and regulation of cellular processes. Prerequisite: CHE 308. *Winter.*

420. Molecular Genetics. (3-4-5)

The nature and function of genetic material, genetic code and physical basis of inheritance. The study also includes genetic control of cellular metabolism; mechanisms of gene action; genetic capacity for biosynthesis; gene enzyme relationship; and chemical nature of agents of heredity. Prerequisite: BIO 303. *Winter.*

425. Bacterial Physiology. (3-4-5)

Study of cellular structure, growth-kinetics, the syntheses of DNA, RNA and protein, the regulation of metabolism and general cellular physiology; the patterns of energy generation and biosynthesis and their regulation. Prerequisite: BIO 306. *Spring.*

426. Virology. (3-4-5)

A study of the biological, chemical, and physical characteristics of the viruses with emphasis on the techniques of isolation and cultivation. Prerequisite: BIO 306. *Spring.*

427. Mycology. (3-4-5)

A study of the ecology, physiology and systematics of micro-fungi with emphasis on those forms which are of industrial or general economic importance. Prerequisite: BIO 306. *Winter.*

430. Biology Seminar. (0-2-1)

Introduction to biological literature, research methodology, manuscript preparation, and seminar presentation. Prerequisites: Junior or Senior Standing. *Fall, Winter, Spring.*

431. Introduction to Research. (2-0-2)

Student participation in faculty-supervised research projects. A manuscript and an oral presentation of research findings are required. Prerequisite: Junior or Senior Standing and Approval of Department Head. *Fall, Winter, Spring.*

440. Senior Research. (3-0-3)

An honors research project for students having a minimum grade point average of "B" and having demonstrated exceptional research potential. Prerequisite: BIO 430, Senior Standing. *Fall, Winter, Spring.*

Biology 450-451-452-453. Clinical Internship (48 Cr. Hrs.)
Clinical experience involves didactic and laboratory instructions in urinalysis, hematology, immunohematology, serology, microbiology, coagulation, clinical chemistry and related areas. Prerequisite: Senior Standing, and acceptance for Clinical training in a NAACLS approved hospital.

BIOTECHNOLOGY (BIO)

490. Chemical Biotechnology (2-4-4)
Structure, synthesis and function of carbohydrates, proteins, lipids, and nucleic acids in animals, plants, and microorganisms; biological oxidation; enzyme structure and function; intermediary metabolism; regulation of metabolic pathways.

491. Applied and Industrial Microbiology (3-4-5)
Isolation characterization, propagation and industrial applications of microbial, plant, and animal cells to mass culture, culture preservation, and the production of chemical, antibiotics and monoclonal antibodies.

492. Introduction to Plant Molecular Biology (3-4-5)
Principles and applications of recombinant DNA and biotechnological processes to the development of novel products from plants.

493. Principles of Genetic Engineering (3-4-5)
Survey of concepts and applications of recombinant DNA technology, DNA sequencing, nucleic acid hydridization; gene and cell cloning; restriction endonucleases; vectors and viruses; plasmid, bacterial and eukaryotic DNA. 5 hrs.

494. In Vitro Cell Technology (3-4-5)
Principles, techniques and applications of plant tissue culture, hybridoma (monoclonal antibody) technology, somatic cell hybridization, cell and organ culture, culture and maintenance, virology and immunology. 5 hrs.

498. Biotechnology Internship (0-80-5)
Supervised individual research project conducted with a drug company, biotechnology company, or in a government, industrial, or university research facility. Project report required. 5 hours.

ENVIRONMENTAL STUDIES (ENS)

201. Environmental Studies. (3-4-5)
A survey of the environmental problems facing man: ecological, technological, cultural and economic. *Fall.*

301. Hydrology. (3-4-5)
Topics dealing with the fundamentals of the hydrologic cycle, budget and equation; precipitation, evapotranspiration, stream flow; ground water flow and urban vs. watershed models. Prerequisite: MAT 212 or equivalent. *Winter.*

302. Limnology. (2-2-3)
Evolution and morphology of ponds, lakes and streams; physical and chemical characteristics of inland water, aquatic biota, their taxonomy and ecology. Prerequisites: BIO 128, 301 and CHE 104. *Spring.*

304. Environmental Ethics. (3-0-3)
The basics in philosophical and ethical thought especially as related to the development in humankind of a new ecological ethic. Prerequisite: HUM 232, 233; BIO 203. *Fall.*

305. Environmental Aesthetics. (3-0-3)

Introduction to the assessment of environmental problems and issues from philosophical, literary, aesthetic, historical and anthropological perspectives. Prerequisite: ENS 201, HUM 232, 233. *Winter.*

306. Microbial Ecology. (3-4-5)

Relationships of microorganisms to their environment and to other organisms: symbiotic, soil and aquatic microorganisms are considered. Prerequisite: BIO 128, 203. *Fall.*

308. Environmental Surveying and Mapping. (2-4-3)

The basic tools of surveying: the transit, level, tape, EDM and alidade are introduced. Basic topographic and hydrographic map making and interpretation are studied. The modern tools: satellite imagery, infra-red photomapping and telemetry are considered. To be modularized. ENS 201, MAT 108, PHY 202. *Spring.*

309. Internship. (1-0-6)

Practical training and experience with an appropriate agency. Prerequisites: ENS 201, Sophomore Standing. *Fall, Winter, Spring.*

365. Environmental Planning. (3-0-3)

Introduction to environmentalism in land use planning strategies; zoning, subdivisions and community organization; growth control. Local, state and federal regulations on land use planning and development. *Winter.*

400. Environmental Law. (3-0-3)

The legal processes relating to resource conservation, utilization and the monitoring, control, and abatement of pollution of water, air and land. Prerequisites: ENS 304,305. *Winter.*

403. Environmental Issues in Environmental Design. (2-2-3)

Consideration of the historic, social, cultural and political issues which converge with ecological factors during the development of an acceptable environmental design. Prerequisites: ENS 304 or 305 and Senior Standing. *Winter.*

405. Environmental Impact Assessment. (2-2-3)

Multidisciplinary terms are organized to produce actual EIS's, Geology, soils, topography, hydrology, meteorology, biology, sociology and economics are all involved. Prerequisite: ENS 400 and Senior Standing or approval by Department Head. *Winter.*

410. Environmental Studies Synthesis Seminar. (2-2-3)

Involvement in and searching environmental studies literature, data collecting and analysis. A manuscript is prepared and presented. Prerequisite: ENS 405 and Senior Standing. *Winter.*

MARINE BIOLOGY (MBI)

150. Introduction to Marine Sciences. (4-4-3)

An introduction to marine sciences through the study of ocean geography, seawater, circulation, tides, waves, currents, marine biology and marine environments. Study of coastal processes, nearshore environments and inshore plants and animals emphasized through study in the field. *Summer.* (6 weeks).

209. Technical Writing. (2-0-2)

The practical study of organizing and presenting scientific and technical information. Covers the key elements of effective writing and communication in memoranda, letters, questionnaires, reports, articles, abstracts. Introduces the application and practical capabilities of computers, word processing and integrated software. Prerequisite: ENG 109. *Winter.*

219. Environmental Analysis Technique. (2-6-4)

Surveys the variety of equipment and techniques employed in collecting and analyzing physical, chemical, geological, and biological samples and data from marine and coastal environments. Emphasizes the practical applications and use of the computer for data collection and analysis using the computer. Prerequisites: CHE 104 and MBI 280. *Winter or Spring.*

250. Field Studies in Marine Biology. (3-12-5)

This field and laboratory oriented course focuses upon general topics in marine ecology, behavior and biogeography. General aspects of fish biology are discussed (e.g., basic taxonomy, behavior and ecology) with emphasis on field methods and techniques used in sampling, observation and hypothesis testing. Part of the course will be conducted at Savannah State College on the Georgia coast and part at a coral reef. This is a three (3) week course. Prerequisite: Consent of instructor. SCUBA certification is recommended. *Summer.*

280. Introduction to Oceanography. (3-4-5)

Survey of basic concepts and interrelationships of physical, geological, chemical, and biological oceanographic and inshore ecosystems. Introduction to function and application of oceanographic equipment. Prerequisite: BIO 124 or 128 or CHE 104. *Fall, Spring.*

291. Descriptive Marine Taxonomy. (3-4-5)

Sorting and classifying techniques for marine flora and fauna. Introduction to use of literature, keys, monographs, guides, and regional studies. Prerequisite: BIO 201. *Spring.*

292. Marine Instruments. (3-4-5)

Proper usage of equipment employed in collecting, biological, geological, and physical samples and data from marine and coastal environments; rigging techniques, maintenance, repair. Prerequisite: MBI 280. *Spring.*

293. Marine Analysis Techniques. (3-4-5)

Methodologies and techniques employed in analyzing marine environmental parameters (chemical, biological, geological and physical). Emphasis on analytical techniques employed in current ongoing marine environmental research. Prerequisite: CHE 104; Corequisite: MBI 292. *Spring.*

294. Biological Illustration and Photography. (3-4-5)

Photographic methods of illustrating specimens and preparing illustrations. Prerequisite: CHE 104. *Winter.*

332. Biostatistics. (3-0-3)

Introduction to statistics with applications in the biological and health sciences. Covers measurement, data, variables, dispersion, variance, parametes and estimates, errors, hypothesis/significance testing, t-tests, ANOVA, chi-square, correlation and regression analyses, and the use of computers in statistical analyses. Prerequisite: MAT 108. *Winter.*

334. Marine Chemistry. (3-4-5)

Chemical composition and processes of seawater; sample collection and chemical analysis techniques using the computer; carbonate buffering system, biogeochemical cycles. Prerequisites: CHE 104, MBI 280. *Winter.*

382. Marine Invertebrate Zoology. (3-4-5)

Survey of the major marine invertebrate taxa emphasizing function and special adaptations to marine environments. Practical emphasis on collecting, preserving, sorting and classifying, especially local species. Prerequisite: MBI 215. *Fall.*

481. Biological Oceanography. (3-4-5)

Global-scale considerations of biological features and processes within oceanic environments including: marine biogeography, oceanographic nutrient cycles, food webs and energy flow, pelagic and abyssal zone community dynamics, oceanic food resources, plankton biology. Prerequisites: MBI 280, MBI 215. *Winter or Spring.*

484. Marine Ecology. (3-4-5)

Principles of ecology related to marine and estuarine ecosystems. Theoretical population dynamics, age distributions, competition, predation, ecology studied using computer modeling. Results of practical experimental approach to the study of marine ecosystems analyzed using computer simulation, modeling and analysis. Prerequisites: BIO 203, MBI 219, MBI 332.

485. Ichthyology. (3-4-5)

Evolution, classification, anatomy, physiology, ecology of fishes. Includes methods for the collection, identification, maintenance, and study of southeastern coastal marine and estuarine species. Prerequisite: MBI 215.

Honors Program

The Minority Access to Research Careers (MARC) Honors Undergraduate Research Training Program is a part of the School of Sciences and Technology. The Program is funded by National Institute of General Medical Sciences. One of the objectives of the Program is to increase the number of college graduates who can gain admission to a Ph.D. program in major field for eventual research in a health or biomedically related area. The program is interdisciplinary and is open to undergraduate majors in Biology, Chemistry, Mathematics and Physics.

DESCRIPTION OF COURSES

NATURAL SCIENCES (NAS)

***310. Biomedical Instrumentation. (3-4-5)**

A lecture and laboratory course in principles and application of spectrometry, various separation methods, radiotracer techniques. Computer software, etc. Prerequisite: Junior Standing. *Winter.*

***320. Research Methods. (3-4-5)**

A course dealing with methodology and interpretation of research results. A seminar based on a review of literature pertinent to anticipated research is an integral component of this course. Prerequisite: Junior Standing. *Spring.*

**Required of all MARC RESEARCH TRAINEES.*

***330. Microcomputer and its Applications. (3-4-5)**

An introductory lecture/laboratory course designed to introduce students to microcomputer basics, language (BASIC), graphics, and interfacing. Prerequisite: Junior standing. *Summer.*

***350. Biostatistics. (5-0-5)**

This course is designed to give statistical tools relevant to biological and health sciences. Applications of statistics in the areas of clinical trials, health studies (epidemiology) and laboratory technology. The course will include analysis of vital statistics, graphing data, analysis of data collected in incidence studies and experimental studies. Biomedical package will be used for learning computing techniques. Prerequisite: MAT 217, Junior Standing. *Spring.*

410. Mathematic Modeling. (5-0-5)

The course will involve the basis for the use of mathematic model building. The student will be introduced to various kinds of models such as the theory of models for Linear Optimization, models involving chance, choice and competitions; graphs and models, growth model for epidemics; Markov chain models (single nerve cell); models for ecological and chemical systems; models involving calculus and differential equations. Prerequisite: MAT 213, Senior Standing. *Spring.*

420. Special Topics in Inorganic Chemistry. (3-0-3)

This course will include a general discussion of selected topics in Inorganic Chemistry such as chemical bonding, ligand field theory, coordinated complexes and chelates, molecular and crystal structure, dipole moments and properties of biologically important trace elements. Prerequisite: Senior Standing. *Fall.*

425. Principles and Methods of Toxicology (2-4-4)

Harmful actions of toxic substances on mammalian systems particularly on reproductive and developmental stages. Biological and health risks associated with chemical are stressed. Various test-systems for screening chemicals are also covered. Prerequisite: CHE 308. Senior Standing. *Fall.*

430. Biophysics. (3-0-3)

A selection of various topics of current interest in biophysics to include molecular spectroscopy and photobiology radioactivity and biological tracers, biological effects of ionizing radiation, properties of macromolecules, biophysical studies on nerves and muscles, and analog simulation and dynamical modeling of living systems. Prerequisite: Senior Standing. *Winter.*

MEDICAL TECHNOLOGY

The main objective of this program is to provide three years of preclinical curriculum through the department of biology or chemistry. The preclinical curriculum includes 24 quarter hours of Biology, 24 quarter hours of Chemistry and a course in mathematics involving probability and statistics as required by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Courses in organic Chemistry, microbiology and immunology are required prior to admission into clinical internship during the Senior year. Selection into clinical program is highly competitive and not automatic. Many students complete the Bachelor of Science degree following the biology or chemistry curriculum before seeking clinical internship.

**Required of all MARC RESEARCH TRAINEES.*

MEDICAL TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Math and Natural Sciences: 20 hours required
- Mathematics 107-108 ..... 10 hours
- Physics 201-202 ..... 10 hours

Area III—Social Sciences: 20 hours required
- History 102-202 or 203 ..... 10 hours
- Political Sciences 200 ..... 5 hours
- Psychology 201 ..... 5 hours

Area IV—Courses Appropriate to Majors (29-30 Hours)
- Biology 128-200-201-202-203 ..... 9-15 hours
- Chemistry 101-102-103-104 ..... 10-15 hours
- Mathematics 217 (Statistics) or
- MBI 209 and MBI 332 ..... 5 hours

ADDITIONAL REQUIREMENTS
- Physical Education ..... 6 hours
- General Education 101 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 48 hours

Junior Year: Major Requirements: 38 hours
- Biology 300-306-307-407 ..... 18 hours
- Chemistry 303-307-308-404 ..... 20 hours
- Specific Electives: 10 hours
  - Biology 303-304 or
  - Chemistry 303-305 ..... 10 hours

SENIOR YEAR: Clinical Internship: 48 hours

BIO 450-451-452-452 (Clinical Internship) ..... 48 hours
(Fifty-two weeks of clinical internship in a NAACLS Accredited hospital laboratory are required. Students may register (tuition free) each quarter at Savannah State College during the internship period.)

Those persons who are not accepted for clinical training may follow the biology or chemistry curriculum to complete degree requirements by taking the following courses:

Biology Requirements: 48 hours
- Humanities 141-142-143 or 151-152-153 ..... 15 hours
- Physics 203 ..... 5 hours
- Chemistry 331 ..... 5 hours
- Biology 301-318-326-401-402-430-431 ..... 23 hours

Chemistry Requirements: 48 hours

Elementary German 151-152-153	15 hours
Chemistry 309-401-402-403-405-406-408-415	23 hours
Electives	10 hours

DEPARTMENT OF CHEMISTRY

MANCHERY P. MENON, Acting Head

Jeffrey James
Kamalakar B. Raut
George N. Williams
Elizabeth Robinson, Secretary

Courses in Chemistry are designed to serve the following purposes: (1) to provide a thorough foundation in the general areas of chemistry for students preparing for careers in industry and government; (2) to provide the needed chemistry background for students who are majoring in engineering technology, criminal justice, and biology; and (3) to provide preprofessional training for students who intend to study dentistry, medicine, pharmacy, other health professions, and for those who plan graduate study.

The Department of Chemistry offers the usual general courses, a minor sequence in chemistry, a minor sequence in forensic science, and courses leading to the degree of Bachelor of Science with a major in chemistry. The department also offers a Dual Degree Chemical Engineering Program whereby the student attends Savannah State College for approximately two academic years. (See Department of Engineering Technology, Dual Degree Program, page 212).

CHEMISTRY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Science: 20 hours required
- Mathematics 107-108 ..... 10 hours
- Biology 123-124 ..... 10 hours

Area III—Social Sciences: 20 hours required
- History 101-102-202 or 203 ..... 15 hours
- Political Science 200 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- Chemistry 101-102-103 ..... 15 hours
- Mathematics 109-212-213 ..... 15 hours

Additional Requirements:
- Physical Education ..... 6 hours
- Intro. to Sciences & Technology ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 58 hours as specified
- Chemistry 303-304-305-307-308-309
  401-402-403-404-405-406-408-415 ..... 53 hours
- Chemistry 313-409-410 ..... 3 hours
- Chemistry 311-307 ..... 2 hours

Specific Electives: 35 hours

Elementary German 151-152-153	15 hours
Humanities 233	5 hours
Physics 201-202	10 hours
Mathematics Elective	5 hours
General Elective	5 hours

COMPREHENSIVE EXAMINATION

Senior Chemistry majors are required to take the Graduate Record Examination (Area and Aptitude tests) as the comprehensive examination in their field.

DESCRIPTION OF COURSES

CHEMISTRY (CHE)

101. General Inorganic Chemistry. (4-3-5)

An introduction to the fundamental principles of chemistry with laboratory experiments designed to supplement class room lectures. *Fall, Winter, Summer.*

102. General Inorganic Chemistry. (4-3-5)

A continuation of Chemistry 101 that includes a broad and general discussion of the chemistry of metals and non-metals, study of the properties of solutions, chemical kinetics, coordination compounds and the properties of liquids and solids. Basic concepts of organic chemistry, nuclear chemistry and biochemistry are discussed. *Winter.*

103. General Inorganic Chemistry. (2-9-5)

Theory and laboratory practice in the fundamentals of analytical chemistry. The systematic separation and identification of cations and anions. Prerequisite: CHE 101 or 102. *Spring.*

104. General Inorganic Chemistry. (2-9-5)

Designed for the biology major whose curriculum requires only two quarters of general chemistry. Treats certain topics of CHE 102 and CHE 103 dealing with the theory and methods of qualitative analysis. Prerequisite: CHE 101. *Winter, Spring.*

115. Chemical Calculations. (1-0-1)

An introduction to the use of mathematics in chemistry. *Spring.*

303. Analytical Chemistry. (3-6-5)

Theory and practice of volumetric methods of analysis involving the following titrations: precipitation, potentiometric acid-base, complexometric, non-aqueous and redox. Prerequisite: CHE 103 or 104. *Fall.*

304. Analytical Chemistry. (3-6-5)

Gravimetric methods of analysis involving quantitative separations by volatilization, qualitative precipitation, extraction, and chromatography. Prerequisite: CHE 103 or 104. *Winter.*

305. Instrumental Methods of Analysis. (2-6-4)

Covers the theory, techniques and methods of analysis using modern instruments. Potentiometric, conductometric, spectrophotometric (including infrared), polarographic, and chromatographic methods of analysis are practiced in the laboratory. Prerequisites: CHE 303-304. *Spring.*

307. Organic Chemistry. (3-6-5)

Preparations, tests, and properties of carbon compounds. Aliphatic compounds are emphasized. Prerequisite: Ten quarter hours of college; chemistry. *Fall, Summer.*

308. Organic Chemistry. (3-6-5)

Continuation of Chemistry 307, with emphasis on aromatic and heterocyclic compounds. Prerequisite: CHE 307. *Winter.*

309. Qualitative Organic Analysis. (3-6-5)

Chemical and physical properties of organic compounds are used in the laboratory for the purpose of separating and identifying them. Prerequisite: CHE 308. *Spring.*

331. Biophysical Chemistry. (4-3-5)

Designed for premedical students and students in biological sciences or related disciplines. General topics of discussion in the course are colligative properties of solutions, thermodynamics, rates and mechanism of enzyme-catalyzed reactions, colloids, and transport phenomena in liquids. Prerequisite: Junior Standing. *Winter.*

401. Physical Chemistry. (3-3-4)

Study of the behavior of gases, gas laws, kinetic theory of gases, thermochemistry, thermodynamics and homogeneous and heterogeneous chemical equilibria. Application of physical principles to the solution of chemical problems is highly emphasized. Prerequisite: MAT 231. *Fall.*

402. Physical Chemistry. (3-3-4)

A continuation of CHE 401 which includes such topics as properties of solutions, phase equilibria, electrochemistry and chemical kinetics. Prerequisite: CHE 401. *Winter.*

403. Physical Chemistry. (3-3-4)

A continuation of CHE 402 that deals with the properties of solids and liquids, atomic and molecular structure, quantum chemistry, chemical bonding and surface chemistry. Prerequisite: CHE 204. *Spring.*

404. Biochemistry. (3-6-5)

The chemistry of carbohydrates, lipids, proteins, mineral elements and water. Prerequisite: CHE 307. *Fall, Spring.*

405. Biochemistry. (3-0-3)

Chemistry of vitamins, enzymes, hormones and mechanisms of digestion and animal and plant metabolism will be studied. Prerequisite: CHE 404. *Winter.*

406. Biochemical Preparations. (0-3-1)

Isolation and identification of compounds from natural products and synthesis of compounds with possible biochemical importance. Prerequisite: CHE 404. *Fall, Spring.*

311-407. Introduction to Research in Chemistry. (0-3-1)
Designed to acquaint the student with techniques used in simple research problems. Examination of chemical literature and experimental work. Prerequisites: Junior Standing in chemistry and consent of the staff. *Fall, Winter, Spring.*

312-408. Chemical Seminar. (1-0-1)
Modern development in specific subdivisions of the field of chemistry are considered. Prerequisite: Junior or Senior Standing. *Fall, Winter, Spring.*

313-409-410. Organic Preparations. (0-3-1)
Preparations involving selected syntheses and name reactions. Prerequisite: CHE 308. *Fall, Winter, Spring.*

411. Radioisotope Technology. (3-3-4)
Provides a basic understanding of the nuclear atom, knowledge of the detection and measurement of radioactivity, and also includes a study of the many applications of radioisotopes in chemistry, biology, geology, etc. Prerequisite: Junior Standing in the major field. *Winter.*

415. Chemical Literature. (1-0-1)
Involves the use of the library in general and the procedures to obtain chemical information in particular by referring to abstracts and journals. *Spring.*

420. Special Topics in Inorganic Chemistry. (3-0-3)
This course will include a general discussion of selected topics in Inorganic Chemistry such as chemical bonding, ligand field theory, coordinated complexes and chelates, molecular and crystal structure, dipole moments and properties of biologically important trace elements. Prerequisite: Senior Standing and the consent of the instructor. *Fall.*

FORENSIC SCIENCE

MINOR IN FORENSIC SCIENCE: 29 quarter hours

Forensic Science	Quarter Hours
CHE 361	5
CHE 362	5
CHE 363	5
CHE 461	5
CHE 462	5
CHE 463	4

DESCRIPTION OF COURSES

361. Forensic Evidence in Law Enforcement. (5-0-5)
Principles of criminal law and procedure, preparation and presentation of evidence, examination of witnesses, and methods of legal research. Emphasis will be placed on court opinions defining the rules of search and seizure and advisibility of evidence.

362. Principles of Forensic Science I. (4-2-5)
Examination of firearm and toolmark examination, document examination, pathology, serology, and anthropology. One laboratory exercise per week.

363. Personal Identification. (4-2-5)
Methods of personal identification based on sketches, finger prints, voice-print, odontology and physchological profiles. One laboratory exercise per week.

461. Principles of Forensic Sciences II. (4-2-5)
Examination of arson accelerant, drugs, glass, hairs, plastics, paints and textile fibers. One laboratory exercise per week.

462 Drugs of Abuse. (4-2-5)
Chemical, pharmacological, toxicological, and Pathological characteristics of commonly abused drugs, including ethanol, barbiturates, narcotics stimulants, and hallucinogens.

463. Forensic Science Internship. (0-0-4)
Internship experience in a forensic science laboratory or criminal justice agency under the supervision of a faculty member.

DEPARTMENT OF MATHEMATICS, PHYSICS AND COMPUTER SCIENCE TECHNOLOGY

KAILASH CHANDRA, Head

Venkataraman Ananthanarayanan
Ijaz A. Awan
Jacquelyn M. Byers
Jacob Engelhardt
Gian Ghuman
Kishan Gona
Prince A. Jackson
Hetty B. Jones
Dorothy D. Murchison
Ahmad Moor

Bernice Scott, Secretary

The Department of Mathematics, Physics and Computer Science Technology offers courses leading to the baccalaureate degree in three areas: Mathematics, Physics, and Computer Science Technology and a double major in Mathematics and Physics, and Mathematics and any area of technical sciences. Minor programs in mathematics, physics, earth sciences, and computer science are available. The Department promotes an extensive interdisciplinary approach that would provide students a sound educational background that would make the students quite marketable and thus prepared for gainful employment, or prepared to pursue successfully courses in graduate study.

The main objectives of the Department of Mathematics, Physics, and Computer Science Technology are: (1) to offer to all students the opportunity for acquiring the mathematical, physical, statistical, and computer science basic skills and knowledge which are needed for successful living, together with an appreciation of the contributions of these sciences to the development of human progress; (2) to provide students in the natural, environmental, and engineering sciences with insights into physical laws, to develop analytical and logical thinking, using the mathematical and computer tools essential in the various fields of the sciences; (3) to provide computer and statistical skills to students in the social sciences, business administration, and other areas; and (4) to provide advanced training to those planning graduate study in the sciences.

Plan of Study

FRESHMAN MATHEMATICS

Entering freshman students whose scores on the combined verbal and mathematics sections of the Scholastic Aptitude Test (SAT) meet the requirements of regular admission are placed in Mathematics 107, 108 or 212 depending on background of student.

Applicants for admission whose SAT scores do not meet the requirements for regular admission must take the Basic Skills Examination (BSE) in English, Reading, and Mathematics. On the basis of their achievement on the Mathematics Tests, these students are assigned to Mathematics 107 or to a Mathematics course in the Developmental Studies Department.

REQUIRED EXAMINATIONS

1. Each candidate for the baccalaureate degree in the Department of Mathematics, Physics and Computer Science Technology is required to pass the reading and essay writing components of the Regents' Testing Program (RTP).

2. Senior Mathematics, Physics and Computer Science Technology majors are required to take the Graduate Record Examination (Area and Aptitude Tests) as the comprehensive examination in their field.

EXEMPTION EXAMINATION

A student may be exempted without credit hours from MAT 107, 108, and/or 109 provided the student passes a departmental exemption examination. To exempt MAT 107, the student must have a SAT score of 400-449 or an ACT score of 16-20 in mathematics in order to be eligible to take the MAT 107 exit examination. The student with a SAT score of 450 or an ACT score of 21 or above, is eligible to enroll in MAT 108 without taking the exit examination.

The exit examination will be administered each quarter on the day before registration.

IMPORTANT INFORMATION

Any student who has passed either MAT 212, 213, or 214 with a minimum grade of C will not receive credit hours for 100-level mathematics courses taken subsequently to the 212, 213, or 214 courses.

All students must pass both parts of the Regents' Exam and must earn a grade of "C" or better in all courses specified as major and/or minor requirements.

BACCALAUREATE DEGREE PROGRAMS

MATHEMATICS

The curriculum in Mathematics is designed for those students who are interested in careers in mathematics or related fields after graduation in industry/government or in pursuing an advanced degree in mathematics, pure or applied.

PHYSICS

The Physics curriculum provides instructions that will motivate interested students to pursue a professional career in physics or an immediately adjacent field or pursue careers in medicine, business administration, oceanography, industry, military service, and computer technology.

COMPUTER SCIENCE TECHNOLOGY

The curriculum in Computer Science Technology is designed for those students who are interested in careers in computer science. This program is flexible enough so that students may orient the major emphasis toward the software aspect of computer science or to the hardware realm of computer science.

DUAL DEGREE PROGRAM

In cooperation with the Georgia Institute of Technology, a Dual Degree Program is offered, whereby undergraduate students can attend Savannah State for approximately three years and then attend the Institute for approximately two years. Upon completion of the program the student will receive baccalaureate degrees from both institutions. More details on this program are listed in the engineering technology section of the catalog.

CURRICULUM FOR MAJOR IN MATHEMATICS

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Science: 20 hours required

Mathematics 108-109	10 hours
Physics 201-202	10 hours

Area III—Social Sciences: 20 hours required

History 101	5 hours
History 202 or 203	5 hours
Psychology 201	5 hours
Political Science 200	5 hours

Area IV—Courses Appropriate to the Major: 30 hours

Computer Science 125-126	5 hours
Mathematic 212-213-214	15 hours
Physics 203	5 hours
Economics 201	5 hours

Additional Requirements: 9 hours

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 100 quarter hours

Major Requirements: 45 hours as specified

Mathematics 315-316-318-319-404-411	30 hours
Selected upper level mathematics courses	15 hours

Minor Requirement: 30 hours as specified

Specific or Recommended Electives	25 hours
Humanities 233	5 hours
Modern Languages	15 hours
Elective	5 hours

(Excluding 100 level mathematics courses)

CURRICULUM FOR MAJOR IN PHYSICS

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- Mathematics 107-108 ..... 10 hours
- Chemistry 101-102 or ..... 10 hours
  Biology 123-124

Area III—Social Sciences: 20 hours required
- History 101-102 ..... 10 hours
- Political Science 200 ..... 5 hours
- History 201 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- Physics 206-207-208 ..... 15 hours
- Mathematics 109-212-213 ..... 15 hours

Additional Requirements: 9 hours as specified
- Physical Education ..... 6 hours
- General Education ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 103 quarter hours

Major Requirements: 47 hours as specified
- Physics 300-305-306-307-308-310-312-411-412-413-414-470-480-499

Required Related Courses: 56 hours
- Mathematics 214-404 ..... 10 hours
- Computer Science 150 ..... 5 hours
- Physics 313 ..... 5 hours

Minor Requirements: 25 hours as specified
- Electives ..... 11 hours
  (Select upper level courses in major, minor or related courses.)

CURRICULUM FOR MAJOR IN COMPUTER SCIENCE TECHNOLOGY

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

Mathematics 108-109	10 hours
Physics 201-202	10 hours

Area III—Social Sciences: 20 hours required

History 101 or 102	5 hours
Psychology 201 or Economics 200	5 hours
Political Science 200	5 hours
History 202 or 203	5 hours

Area IV—Courses Appropriate to Major: 30 hours required

*Computer Science 215	5 hours
Computer Science 216	5 hours
Mathematics 212-213	10 hours
Electronics 201 and 202	10 hours

Additional Requirements: 9 hours as specified

Physical Education	6 hours
General Education 101	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 105 quarter hours

Major Requirements: 90 hours as specified

Mathematics 214-318	10 hours
Computer Science 127-150-240-362-385-400-410-413	41 hours
Electronic Engineering Technology 103-311-322-323	19 hours
Engineering Technology 101-223-300	9 hours
Computer Technology 203-411-412	11 hours

Restrictive Electives from the following courses: 15 quarter hours
CSC 164, CSC 230, CSC 250, CSC 270, CSC 303, CSC 330, CSC 360, CSC 361, CSC 365, CSC 380, CSC 403, CSC 415, EET 301, EET 302, EET 400, EET 102, ENT 105, ENT 202, MAT 404, MET 222, MET 423, PHY 203, PHY 310

Students whose score on the mathematics section of the SAT is less than 450 must take MAT 107, the prerequisite course for MAT 108 or pass the MAT 107 Exemption Examination if their score in the mathematics section of the SAT is 400-449.

General Electives: 10 hours (excluding 100 level mathematics courses) consult your advisor.

**Effective September 1986, students will be required to take CSC 215 (Principles of Computer Programming-PASCAL I) and CSC 216 (Principles of Computer Programming-PASCAL II) in place of CSC 125, CSC 126 and CSC 215.*

CURRICULUM FOR DOUBLE MAJOR IN MATHEMATICS

Requirements:

1. A Complete Major in Another Area

2. Required Mathematics Courses: 60 quarter hours
   - Mathematics 212-213-214-315-316-318-319-404-411 ..... 45 hours
   - Additional Mathematics Courses ..... 15 hours
     (Select from 300-400 level Mathematics Courses.)

CURRICULUM FOR MINORS

Mathematics Minor: 29 quarter hours
- Mathematics 212-213-214-411 ..... 20 hours
- Mathematics Electives ..... 9 hours
  (Select from Mathematics 300-400 level courses, excluding 420-498-499.)

Physics Minor: 30 quarter hours
- Physics 201-202-203 ..... 15 hours
- Physics 410 ..... 5 hours
- Physics Electives ..... 10 hours
  (Select from Physics 300-400 level courses)

*Computer Science: 30 quarter hours
- Computer Science 125-126-150-215-250 ..... 20 hours
- Computer Science Electives ..... 10 hours
  (Select from Computer Science 300-400 level courses)

Computer science minor for student with major in business: 30 hours

Computer Science 125-126-164-270-306-360-361: 30 hours

Computer Science Minor for Students with Other Major: 35 hours
- Mathematics 108 ..... 5 hours
- Computer Science 125-126-150-215 ..... 15 hours
- Computer Science Electives ..... 15 hours
  (Select from Computer Science 200-400 level courses)

Earth Science Minor: 29 hours
- Physical Science 204 ..... 5 hours
- Geology 300-304-408-440 ..... 17 hours
- Restricted Electives ..... 7 hours
  (Select from Earth Science 223-320-420-425-499 or Geology 310-410-430 or ENS 301.)

**Mathematics majors are required to take CSC 216 instead of CSC 125, 126.*

DESCRIPTION OF COURSES

MATHEMATICS (MAT)

107. College Algebra. (5-0-5)

This course presents certain topics of intermediate algebra in a form that will prepare students for a later study of trigonometry as well as to prepare all students for successful management of their present and future daily mathematical needs. Topics included are: The Real Number System, Functions and Polynomials and Inequalities (first and second degree), Systems of Equations, and Operations with Exponential Numbers (including radicals). *Fall, Winter, Spring.*

108. College Algebra and Trigonometry. (5-0-5)

Functions and transformations, exponential and logarithmic functions, circular functions, trigonometric functions of angles or rotations, trigonometric identities, inverse functions, and equations, triangles, vectors, and applications, and complex numbers. Prerequisite: MAT 107 (minimum grade C). *Fall, Winter, Spring.*

109. Plane Analytic Geometry. (5-0-5)

Elementary concepts of plane analytic geometry; straight lines, the four conics, curve sketching, translations, rotations, other curves, parametric equations. Prerequisite: MAT 108 (minimum grade C). *Fall, Winter, Spring.*

110. Mathematics for Business Students. (5-0-5)

This course is designed to meet the mathematical needs of business students who have completed the general education mathematics sequence. The course is designed to review and supplement knowledge gained in MAT 107. There is ample review, in the course, of such concepts as functions, domain and range, relations, systems of equations, exponents, radicals, and logarithms, simple and compound interest, and matrices. There is also an elementary introduction to techniques of differentiation and integration. Prerequisite: MAT 107 (minimum grade C). *Fall, Winter, Spring.*

212. Analysis I. (5-0-5)

(Analytic Geometry and Differential Calculus) Designed to present an integrated approach to analytic geometry and differential calculus. Basic concepts of analytic geometry, graphs and functions, basic concepts of calculus, the derivative, applications to curve tracing, maxima and minima, velocity, acceleration, rates, differentials, approximate values. Prerequisite: MAT 108. *Fall, Winter, Spring.*

213. Analysis II. (5-0-5)

(Analytic Geometry and Integral Calculus) Integration, the integral as limit of a sum, geometrical applications of integration, physical application, derivatives of trigonometric functions, polar coordinates, conic sections, logarithmic and exponential functions, formal integration. Prerequisite: MAT 212. *Fall, Winter, Spring.*

214. Analysis III. (5-0-5)

Further applications of integrals, improper integrals, L'Hospital's Rule, sequences, limits; series, convergence tests, Taylor series, power series. Prerequisites: MAT 213. *Spring.*

217. Introduction to Probability and Statistics. (5-0-5)

Mean, median, mode, range, variance and standard derivation of raw and grouped data; probabilities; correlations; the normal distribution; the t-distribution; statistical inference, including the pooled t-test, the one-way and two-way analysis of variance, the chi-square test. Non-parametric statistics including the Wilcoxon matched pairs signed pairs ranks test; other tests. Prerequisite: MAT 107. *Winter.*

311. Mathematics of Finance. (5-0-5)

Consumer mathematics for prospective secondary teachers. Ratio, proportion, and percentage applied to commercial problems; compound interest and compound discount; ordinary and other types of annuities; amortization and sinking funds; valuation of bonds; mathematics of depreciation; life annuities and life insurance; income tax returns.

315. Modern Algebra I. (5-0-5)

An introduction to modern algebraic systems and to proof-making. Functions, relations, binary operations, rings, subrings, homomorphisms, integral domains, with emphasis on dursibility properties of the integers and the integers mod n. Prerequisite: MAT 213. *Fall.*

316. Modern Algebra II. (5-0-5)

Further topics in modern algebra. Fields; properties of the rational numbers, the real numbers, and the complex numbers; groups; polynomial rings; roots of polynomials. Prerequisite: MAT 315. *Winter.*

318. Advanced Probability. (5-0-5)

Probability spaces, game theory, random variables, expected value, random sampling, correlation, and regression. Prerequisite: MAT 213. *Spring.*

319. Linear Algebra. (5-0-5)

Matrix algebra, solutions of linear systems using row operations, vector spaces, examples of vector spaces, linear independence, spanning sets, bases, ranks, determinants, matrix inversion, linear transformations, null space and range. Prerequisite: MAT 213. *Winter.*

320. Theory of Equations. (5-0-5)

Complex numbers; elementary theorems on the roots of an equation; constructions with rulers and compasses; cubic and quadratic equations; the graph of an equation; isolation of the real roots; solution of numerical equations; determinants—systems of linear equations; symmetric functions; elimination, resultants and discriminants; fundamental theorem of algebra. Prerequisite: MAT 213. *Winter (odd years).*

321. Introduction to Higher Geometry. (5-0-5)

Designed to give a modern view of geometry, including a critical study of Euclidean geometry treated from an axiomatic viewpoint, as well as the study of non-Euclidean systems. Prerequisite: MAT 213. *Winter (even years).*

333. Symbolic Logic.

This course presents the standard notations, methods and principles of symbolic logic for use in determining the validity or invalidity of arguments. It presents the standard methods of truth tables, Boolean expansions, sets, Euclidean geometry, logistic systems, and symbolic notation used in distinguishing correct (good) from incorrect (bad) arguments. Prerequisite: MAT 213. *Fall.*

404. Differential Equations. (5-0-5)
Differential equations-orders and degree; solutions of differential equations; constants of integration; verification of solutions of differential equations; differential equations of the first order and of the first degree; two special types of differential equations of higher order with constant coefficients; compound interest law; applications to problems in mechanics; series solutions to differential equations. Prerequisite: MAT 214. *Winter.*

409. General Point Set Topology. (5-0-5)
Designed to introduce the concepts of point set topology. Course includes introductory set theory, the real line, topological spaces, arcs and curves, partitionable spaces, and the axiom of choice. Prerequisite: MAT 214.

410. Introduction to Real Variable Theory. (5-0-5)
This course is designed to provide experiences in the Theory of Dedekind cuts, robbinthe existency of g.l.b. and l.u.b., sequences of numbers, and various theorems. Topics include numbers and convergence topological preliminaries, limits, continuity and differential ability, the Riemann Integral, sequences and series, functions of several real variables. Prerequisite: MAT 214. *Spring.*

411. Advanced Calculus. (5-0-5)
Vectors, lines, planes, vector calculus, functions of several variables, limits and continuity, partial derivatives and gradients, applications of gradients, double and triple integrals, line integrals. Prerequisite: MAT 214. *Fall.*

413/CSC 413. Numerical Analysis. (5-0-5)
Topics to be selected from: solving of linear equations: Gauss-Seidel and Jacobi methods; error analysis; approximating functions by infinite series; iteration techniques, techniques of integration, to include trapezodial and Simpson's rules. Prerequisites: MAT 213, and CSC 150. *Spring.*

420. History of Mathematics. (3-0-3)
The history of mathematics from earliest time through the development of calculus, with mathematical problems from many of the periods and cultures. Prerequisite: MAT 214. *Spring (odd years).*

498. Newtonian Seminar. (2-0-2)
This course is designed for students who wish to participate in mathematics seminars for credit. Juniors and Seniors. Prerequisite: MAT 214. *Fall, Winter, Spring.*

499. Mathematical Research.
This course is designed for mathematics majors who are capable of working with a minimum amount of guidance. The student reports periodically to his supervising professor, and the specific content of the course is directed by the supervising instructor. Prerequisite: student must have earned a total of 130 quarter hours, including a minimum of thirty hours in mathematics. *Fall, Winter, Spring. Credit, one to three quarter hours.*

PHYSICS (PHY)

200. Physics Calculations. (2-0-2)
This course is intended to assist the students in putting verbal considerations into mathematical form for solution, to show how computations may be made, to show the forms of presentation of answers used in Science, and to enable him to present an answer with the probable error in determination. The sessions will be devoted among other things to graph plotting, use of mathematical table, and drill in problem solving involving such mathematical operations in which the student may lack proficiency. (Required if students show poor background in computational skills.) *Fall.*

201. General Physics. (3-4-5)

An introduction to mechanics and heat. Emphasis is placed upon concepts and the methods used by physicists to understand and correlate physical processes. Students enrolled in this course should have command of algebra and trigonometry. Prerequisite: MAT 107. *Fall.*

202. General Physics. (3-4-5)

Wave phenomena as sound and light are investigated. Prerequisite: PHY 201. *Winter.*

203. General Physics. (3-4-5)

Magnetism, electricity, and some aspects of modern physics (atomistics) are covered. Prerequisite: PHY 201. *Spring.*

206. Mechanics and Heat. (3-4-5)

This a first of the three calculus based general physics courses designed to meet the needs of a student minoring or majoring in physics. It deals with topics in Mechanics and Heat, using calculus, and involving derivation and problem solving approach. Prerequisites: Math 213. *Fall.*

207. Sound and Optics. (3-4-5)

This is the second of the three calculus based general physics courses designed to meet the needs of a student minoring or majoring in physics. It deals with topics in optics and sound, using calculus, and involving derivation and problem solving approach. Prerequisites: PHY 206. *Winter.*

208. Magnetism, Electricity and Modern Physics. (3-4-5)

This is the last of the three calculus based general physics courses designed to meet the needs of a student minoring or majoring in Physics. It deals with topics in Electricity, Magnetism and Modern Physics, using calculus, and involving derivation and problem solving approach. Prerequisites: PHY 207. *Spring.*

300. Numerical Solutions of Physics Problems. (3-0-3)

Solutions of physics problems of advanced nature will be discussed. Computer calculations will be used as tools. *Fall.*

301. History of Physical Sciences. (3-0-3)

A brief history of the development of expt. and theoretical ideas in Physical Sciences from ancient to modern time will be presented. Biographies of inventors in physics will be studied as well as some historically interesting experiments will be discussed. *Fall.* (Even Year)

302. Energy and Pollution. (3-0-3)

Physical aspects of human use of energy and accompanying changes in the environment, nature and sources of the energy, environmental crisis and possible solutions will be discussed. The theory of energy generation by stars, the green house effect of the earth's atmosphere, solar energy detectors, solar cells and solar furnaces will be discussed. *Winter.* (Odd Year)

305. Introduction to Classical Mechanics. (4-0-4)

This course is designed to provide the students with a background in the following areas: Kinematics, dynamics of a particle, Newton's laws and their application, momentum and energy, rotations, relativistic mechanics and properties of matter. Prerequisite: MATH 213, PHYS 201. *Winter.*

306. Heat and Thermodynamics. (4-0-4)

Mathematical background and preparation, equations of state, ideal and real gases, kinetic theory of gases—temperature and temperature scales, heat capacity and calorimetry, work, Laws of Thermodynamics—the enthalpy function and thermochemistry, Joule-Thomas experiment, entropy functions—free energy—phase rule, etc. Prerequisite: MATH 213, PHYS 201 or 206. *Fall.*

307. Optics. (4-0-4)

Advanced topics in optics in continuation to PHY 207 (PHYS 202) will be discussed. Prerequisite: PHYS 202 or 207 and MATH 213. *Winter.*

308. Electricity and Magnetism. (4-0-4)

Advanced topics in electricity and magnetism in continuation to phys. will be discussed. Prerequisite: PHYS 208 or PHY 203 and MAT 213. *Spring.*

310. Mathematical Physics. (5-0-5)

Designed to develop an understanding of the concrete relationship between mathematical factors that contribute to various physical phenomena; qualitative and quantitative relationships. Prerequisites: MATH 213 and PHYS 208 or PHY 203 and MAT 213. *Winter.*

312. Introduction to Electronics. (2-4-4)

Testing basic components of electronic circuits—tubes, transistors, relays, capacitors, inductors, transformers, microphones, etc.; constructing and testing radio receivers, transmitters, amplifiers, power supplies, and control apparatus; work with vacuum tube voltmeters, frequency generators, oscilloscopes, tube testers, field strength meters, etc. Prerequisite: PHY 208/203. *Fall.*

313. Integrated Circuits. (3-4-5)

Principle of digital and analog circuits and their application in logic circuits and instrumentation. Prerequisite: PHY 208/203. *Winter.*

340. Elements of Astrophysics. (3-2-4)

This course is related with astronomy and astro-physical topics: Solar system, meteors, asteroids, comets, clusters, stars, nebulae, Kepler's Law of Gravitation, astronomical instruments, celestial mechanics, central forces, potentials and attraction of bodies, binary star systems, orbits, perturbation and problems of satellites, internal production of chemical elements, re-entry physics and elements of space flight dynamics. Prerequisites: PHY 207 (preferred), MATH 213, PHY 202 (required). *Spring.*

401. Advanced Mechanics. (4-0-4)

A brief survey of space and time, Newton's laws, concepts of mass and force, external forces, linear motion, conservative forces, the laws of conservation of energy and impulsive forces is done. The problem of harmonic oscillation, moments, angular momentum, polar coordinates, generalized coordinates, the calculus of variations, Hamilton's principle. Lagrange's equations, Hamilton's equation, Small oscillations and normal modes, dynamics of rigid body and theory of relativity is discussed in detail. Prerequisite: PHYS 305. *Winter.*

410. Modern Physics. (5-0-5)

Recent advances in atomic and nuclear physics. Prerequisites: MAT 213 and at least one advanced physics course of four or more quarter hours. *Spring.*

411. Introduction to Elements of Quantum Mechanics. (3-0-3)

A short history of the beginning of quantum theory, the old quantum theory: Wilson Sommerfield quantization rules, DeBroglic matter waves, Schrodinger's waves equation, eigen values, and eigeen functions, the conservation of probability density, solutions of one-dimensional problems. Postulates of quantum mechanics, measurements of compatible observables, linear vector spaces. Schmidt orthogonalization procedure, linear transformation, Dirac bar-ket notation, matrix representation of linear operator, the matrix form of eigen value problem, unitary transfermatives diagonalization of matrices, application of matrix mechanics, harmonic oscillator. Prerequisite: PHYS 305. *Fall.*

412. Introduction to Solid State Physics. (3-0-3)

A course dealing with elastic, electrical, magnetic, and thermal properties of solids; deals with crystal structure, space groups and crystal classes, crystal imperfections, crystal binding, elastic constants, phonons and lattice vibrations, thermal properties of solids, elements of free electron theory, metals and semiconductors, super conductivity, properties of dielectrics, magnetic phenomenon in solids, electrical and thermal transports, photoelectric effect and band theory. Prerequisites: PHYS 306 and PHYS 308. *Winter.*

413. Elements of Spectroscopy. (3-0-3)

An introduction to elements of atomic and molecular spectroscopy will be given. Prerequisite: PHYS 307. *Spring.*

414. Nuclear Physics and Radioactivity. (4-0-4)

Recent advances in nuclear physics. Prerequisites: MATH 213 and at least one advanced physics of four or more quarter hours. *Spring.*

470. Advanced Lab I. (0-4-2)

Selected experiments in advanced topics will be done. Prerequisites: At least 16 quarter hours of 300 level or more of the physics courses. *Fall.*

480. Advanced Lab II. (0-4-2)

Work related to Advanced Lab I will be continued. Prerequisites: At least 16 quarter hours of 300 level or more of the physics courses. *Winter.*

499. Introduction to Research in Physics. (3-0-3)

The student will be introduced to the techniques and procedures used in Physics research problems and initiated in the examination of literature. Prerequisite: Junior standing in Mathematics and Physics and consent of the instructor. At least one 300 or 400 level Physics course must have been completed. *Spring.*

COMPUTER SCIENCE (CSC)

124. Introduction of Algorithms & Flowcharting. (1-0-1)

Methods of structured problem solving, modular design and the steps of developing logical solutions and algorithms, various design tools such as flow charts, IPO diagrams and hierarchy charts. Prerequisite MAT 107.

125. Introduction to Computer Science. (3-0-3)

A study of the background and basic concepts of the computer and its use. An introduction to the fundamentals of programming in BASIC via the terminal, and an introduction to the creation and manipulation of files. Prerequisite: MAT 107. *Fall, Winter, Spring.*

126. Computers in Society. (2-0-2)
No mathematical background required. An introduction to the history and evolution of the computer, and to the use of the computer in helping man to solve problems. A consideration of some of the ways in which the computer influences social organizations and individuals. *Fall, Winter, Spring.*

130. Introduction to MS-DOS (1-0-1)
This course is intended for computer science majors so that they should be effectively exposed to the micro computer systems as IBM PC, XT, AT. The unique design of this course will enable the students to learn all comands used both for floppy and hard disk systems. This basic MS-DOS course will help the students to learn all other application software once they have completed all the commands of MS-DOS. Prerequisite: SST 100.

131. Introduction to WordPerfect (1-0-1)
This course is designed to meet the needs of individuals who have word processing jobs. It helps user through a step-by-step process in understanding how to use each of WordPerfect features. WordPerfect is a package that is capable of performing both simple and complex word processing tasks. It will also help the student in writing across the curriculum. Prerequisite: SST 100.

132. Introduction to Lotus 1-2-3 (1-0-1)
Introduction of the electronic spreadsheet, the most widely used business application of microcomputers, financial model to show a typical business application, fundamentals of spreadsheets, labeling of rows and columns of a spreadsheet, concept of scrolling, inserting formulas and special functions. Prerequisite: SST 100.

150. Computer Programming in a Numerical Language I. (5-0-5)
An introduction to the FORTRAN programming language and its applications in problem solving. Prerequisite: MAT 108.

210. Computer Methods for Humanistic Problems. (5-0-5)
No mathematical or scientific background presumed. An introduction to elementary digital programming in an appropriate language with emphasis on utilizing existing "library" programs to solve problems arising in the humanities and social sciences. The class is divided into interest groups from all areas of the humanities and social sciences, with each group solving problems related to its discipline. Prerequisite: CSC 126.

215. Principles of Computer Programming—PASCAL I. (5-0-5)
An introduction to the principles of computer programming, using Pascal language, with emphasis on problem-solving methods which lead to the construction of correct, well-structured programs. The topics include an introduction to data representation, data types and control structures, procedures and functions, and programming methodology. Prerequisite: MAT 107.

216. Principles of Computer Programming II—PASCAL. (5-0-5)
An introduction to advanced concepts covered in CSC 215: Recursive programming techniques, Data structures, pointers, linked list, queues, stacks, files, strings and trees. Prerequisite: CSC 215. *Winter.*

230. Discrete Mathematics. (5-0-5)
Switching circuit and design, K-maps, Boolean algebras, sets, relations. permutations and combinations, searching and sorting and graph theory. Prerequisite: CSC 150/CSC 215.

250. Computer Programming in Numerical Language II. (5-0-5)
Extension of subject matter covered in CSC 150 to include subprograms and arrays. Scientific Packages are introduced and used. Computer concepts are used to solve problems arising in the various scientific disciplines. Prerequisite: CSC 150. *Spring.*

270. Simulation and Computational Statistics. (5-0-5)
The computer will be used as a tool to implement various probabilistic and statistical concepts to include an introduction to simulation techniques. Prerequisite: CSC 150. *Spring.*

330. Switching Theory
Introduction of Boolean Algebra using K-maps, Quine Melusky method for circuit minimization, combinational & sequential networks, state diagrams, timing diagrams, synchronous and asynchronous networks, switching circuit integration practice. Prerequisite: CSC 150 Fortran 1. *Spring.*

360. Computer Programming in a Business Language I. (5-0-5)
An introduction to the COBOL programming language and its applications to problem solving. This course is designed for business-oriented students, and applications will be in the areas of business and administrative data processing. Prerequisite: MAT 110.

361. Computer Programming in a Business Language II. (5-5-5)
Extension of the subject matter covered in CSC 360, to include creation and processing of data files on a random access device. Prerequisite: CSC 360.

362. Computer Programming in a Machine Language. (5-0-5)
Basic assembler language programming and machine-level representation of instructions and data. Topics include interrupts, control flow of a program, I/O operations, macros and symbolic programming. Prerequisites: CSC 150 or 361.

380. Linear Programming. (5-0-5)
A consideration of various optimization problems from the field of business and finance that have Linear Programming formulations; emphasis is on computer techniques for solving these problems. Prerequisite: CSC 150/CSC 215. *Fall (odd years).*

385. Computer Networks & Design. (5-0-5)
Introduction of distributed system architectures, data transmission, protocol levels, types of network layers, teminal based networks, modems and multiplexers. Prerequisite: CSC 250 or CSC 216. *Spring.*

395-396-397. Internship in Computer Science. (1-13-5)
Work and Study Experience in the Various Areas of Computer Science. Prerequisite: CSC 216 and Junior or Senior status.

400. Data Structures and Organization. (5-0-5)
Logical Data structures and their machine representation. Structures to include list, trees, arrays and graphs. Prerequisite: CSC 216.

403. Compiler Construction. (5-0-5)
Introduction to compiler, compiler overview, language elements, generative grammars, parsing methods, transformation top-down parsing, botton-up parsers, static representation of data objects. Prerequisite: CSC 216.

405. Operating Systems. (5-0-5)
Study of hardware, software, process concepts, semaphores, memory management, CPU scheduling, multiprocessing. Prerequisite: CSC 215.

410. Data and File Management. (5-0-5)
This course is designed to introduce students to the various types of files that are in use such as VSAM, BDAM, and ISAM. File access methods and techniques discussed in relation to the desired applications to be achieved. In addition, the techniques of blocking, de-blocking, record formatting, and choice of appropriate storage media are covered. Prerequisite: CSC 400.

413/MAT 413. Numerical Analysis. (5-0-5)
Basic concepts of floating points. Use of mathematical subroutine packages, approximation, numerical integration and differentiation, solution of non-linear equations, solution ordinary differential equations. Prerequisite: CSC 150, MAT 213.

415. An Introduction to Data Base Systems. (5-0-5)
Topics to include data models, the relational approach. An in-house system will be studied in depth. Prerequisite: CSC 406.

420. Computer Programming in 'C' (5-0-5)
An introduction to the essential features of the 'C' Language. Definition of variables, constants, datatypes and expressions. Study of the language construction for looping and decision making. Structures, pointers, operations on bits and pre-processor commands. Prerequisite: CSC 21 Pascal I. *Winter.*

EARTH SCIENCE (ESC)

221. Earth Sciences. (3-4-5)
Earth as a planet; features of the globe; rocks and minerals. Natural processes acting on the earth's surface, and the resulting land forms. Includes the composition, movements and displacements of the earth's crust; and the action of streams, waves, wind, atmosphere, glaciers and volcanoes. Ocean action; geologic time and presence of isotopes; our earth's resources. Prerequisite: Advanced standing and some knowledge of Physics and Chemistry. (May be used to satisfy elective units in general science, general education and teacher education.)

223. Astronomy and Space Science. (3-4-5)
Historical development of astronomy; the tools and methods of the astronomer; the earth, the moon and the solar system. Stellar systems, galaxies and cosmology. History of space exploration, space flight and earth's environment. Space propulsion systems, life-support systems, and space application. *Spring.*

320. Introduction to Meteorology. (3-4-5)
The atmosphere, its composition and density. Heating of land and water; air in motion and its circulation patterns. Role of atmospheric temperature, pressure and humidity distribution; fog and clouds. Thunderstorms, tornadoes and hurricanes. Prerequisite: PHY 202-202. *Fall.*

420. Weather and Climate. (3-4-5)
Why winds blow. Moisture in the atmosphere. Radiation; stability. Winds and pressure. The general circulation. Weather maps. Extratropical cyclones and waves. Interrelationships among the physical processes of weather. Weather and man. Climatic change. Prerequisite: ESC 320. *Winter.*

425. Interactions of Global Environment. (3-2-4)
Man's activities affecting the equilibrium of atmosphere, hydrosphere, biosphere, and lithosphere. Discussion of natural cycles such as the energy cycle; the water cycle; the carbon cycle; the oxygen cycle; the nitrogen cycle, the sulfur cycle and the phosphorus cycle. Preservation of man's health environment. Prerequisite: CHE 101-102 and GEO 300 or equivalent.

490. Special Problems in Earth Sciences. (0-6-2)
Study of literature, laboratory or field investigation of a selected topic and presentation of a written report or a seminar. Prerequisite: Junior or Senior Standing.

499. Research in Earth Sciences. (0-6-2)
Laboratory and field investigation of a selected research problem and preparation of a written report. Prerequisite: Junior or Senior Standing.

GEOLOGY (GEO)

300. Principles of Geology. (3-4-5)
Identification of rocks and minerals; geological processes such as weathering, erosion, glaciation, earthquakes, volcanoes, mountain building, etc. The earth's interior, introduction to geologic maps and historical aspects of geology. (May be used as elective units in Civil Technology, Naval Science, and Teacher Education). *Fall, and or Winter quarter.*

310. Mineral Resources. (3-0-3)
A study of formation of various minerals in the earth's environment and mineral deposits. Minerals in relation to soil development, nutrient availability, and topography.

400. Stratigraphy. (3-4-5)
Description and genesis of stratified sedimentary rock units and the tectonic setting. Principles of geologic mapping. Prerequisite: GEO 300.

404. Marine and Environmental Geology. (3-4-5)
Geophysical techniques for exploration of the sea floor. Pelagic and Abyssal plain sediments. Igneous rocks and the structure of the ocean basins. Polar wandering and continental drift. Earth processes. Engineering properties of rocks and soils. Earth resources. Geologic consequences of industrialization. Conservation of Management. Prerequisite: GEO 300. *Winter.*

406. Structural Geology. (2-2-3)
Introductory description of the structural features of rock and their analysis. Deformation of the earth's crust during tectonic and metamorphic activity. Prerequisite: GEO 300 or equivalent.

408. Geomorphology. (2-2-3)
Sculpture of the earth's surface by natural processes. Weathering sequence, erosion and development of soil profile. Surficial processes and the evolution of land forms. Prerequisite: GEO 300 and/or GEO 406.

410. Petrology and Petrography. (3-4-5)
Composition, distribution and origin of rocks. Laboratory examination of common igneous, sedimentary and metamorphic rocks; use of petrographic microscope, study of metamorphic zoning, and physical and mineralogical analysis of sediments. Prerequisite: GEO 300.

430. Introduction to Geophysics. (3-2-4)
Origin of the earth and solar system. Earth's interior and its physical parameters. Geochronology. Heat flow, seismicity, gravity field, magnetic field, and paleo-magnetism. Physics of the upper atmosphere. Continental drift. Prerequisite: PHY 202 and GEO 300.

440. Introduction to Geochemistry. (3-2-4)
Chemical principles of geologic processes. Origin and distribution of chemical elements and isotopes in the earth, its water and atmosphere. Age of the earth and crustal evolution. Phase transformations at pressures and temperatures found in the earth's interior and the surface. Prerequisite: CHE 102-102 and GEO 300. *Spring.*

PHYSICAL SCIENCE (PHS)

203. Physical Science. (3-4-5)
This course is designed to furnish the student with a knowledge of scientific facts and scientific laws pertaining to the physical universe.

204. Physical Geography. (3-4-5)
The Earth in Space, its form, the geographic grid, and map projections. Atmosphere, oceans, ocean tides, and the eclipses, climate, soils and vegetation. Temperature; latitude; heat budget of the earth. The earth's crust and its relief forms.

205. Physical Science (Astronomy and Meteorology) (3-4-5)
The study of Solar System; the earth-moon system. Stars and their evolution; interstellar matter and galaxies. Composition of air and atmospheric energy. Circulation pattern of winds, microclimate; weather forecasting and modification. Prerequisite: PHS 203. *Spring.*

DEPARTMENT OF ENGINEERING TECHNOLOGY

LESTER B. JOHNSON, JR., Head

Teresa Anthony
Sylvester Chukwukere
Kendall Hill
Alex Kalu
Rex C. Ma
John L. Mason
Abulkhair M. Masoom
Fahmida R. Masoom
Fred F. Moser
Pravin K. Raut
Raymond D. Schlueter
Asad Yousuf
Thomas Lamberton, Technician

Delores Williams, Secretary

The Department of Engineering Technology offers courses leading to the degree of Bachelor of Science, with majors in Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology and Process Engineering Technology; and to the degree of Associate of Science with majors in Chemical Engineering Technology, and Computer Engineering Technology. **The civil, electronics and mechanical engineering technology curricula are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.** The Electronics Engineering Technology program is accredited by the National Association of Radio and Telecommunications Engineers Inc. (NARTE) and the College is a certified NARTE Testing Center.

The ultimate objective of the Engineering Technology program is to provide the students with an educational experience that will allow them to succeed as engineering technologists. This involves keeping the students interested and providing opportunity for them to become skillful in their assimilation of information and techniques. When students leave the institution they are aware of, and have fixed firmly in their minds, the potential of which they are capable.

Engineering technology embraces the physical sciences, mathematics, and the practices and materials of modern industry which are utilized in the design and construction of the machines, structures, highways, power sources, process systems, communication systems, and products needed to maintain a highly technical society. The activities of engineering technology are concerned with translating the concepts and theories of professional engineers and scientists into actual devices and products by using tests to provide data for rational solutions and designs. These tests are followed by interpretations of data and preparation of appropriate plans for use by skilled craftsmen who produce the devices and/or products.

All students majoring in Engineering Technology are required to have an engineering drawing kit which they should bring with them or be prepared to purchase upon enrollment.

REGISTRATION FOR PROFESSIONAL ENGINEERS

To protect public safety each state establishes laws to license engineers involved in projects affecting public health, safety and life. The registration process involves written examination, professional work experience and professional recommendations.

Although it is not the goal of Savannah State College to offer programs to prepare an individual to become a registered professional engineer, it is possible for an engineering technology graduate to become registered in Georgia and some other states. The requirements for registration as a professional engineer vary from state to state with some states not allowing engineering technology graduates to become registered. Students considering registration as a professional engineer should contact Dr. Pravin K. Raut for further information.

The Department of Engineering Technology is a member of the following professional organizations:

The American Society for Engineering Education

The Southeastern Section of Americcan Society for Engineering Education

The American Technical Education Association

Cooperative Education Program

The Cooperative Education Program is available to students of this department. The program enables students to gain work experience in industry as paid employees during their college tenure. The program is coordinated through the Office of Cooperative Education. The program is available to students who have acquired at least 46 quarter hours, including at least five courses in the major; are competent in a computer language; have a satisfactory academic record; and meet the job specifications of the employer.

Students work in industry and attend college during alternate quarters or as arranged. To remain in the program, they must maintain creditable records at both places. Students must register for the appropriate cooperative education course each quarter they are employed and must observe all applicable regulations of the cooperating company.

Students pursuing the coop program should expect their matriculation to extend beyond four years. The college does not guarantee the availability of coop stations, duties, or compensation. At the conclusion of the coop experience, students are not obligated to accept employment with the cooperating companies and the companies are not obligated to offer them employment.

Students interested in this program should consult with the department head and the cooperative education program director, Dr. Manchery P. Menon.

BACCALAUREATE DEGREE PROGRAMS

SPECIAL REQUIREMENTS FOR MAJORS

Students enrolled in the Department of Engineering Technology who earn less than a 'C' in any English, mathematics or major course required in their curriculum, must repeat the course during the next quarter that it is offered. Major courses are those courses offered by the department.

CIVIL ENGINEERING TECHNOLOGY

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The curriculum in civil engineering technology is designed to provide ample instruction in those areas of knowledge required for successful performance in the following capacities as well as in other construction related positions:

Architectural and Structural Draftsman and Designer—plans, designs, and supervises construction of frame, steel, and concrete structures; makes architectural inspections and appraisals for architects and builders.

Highway Engineering Technologist—collects and tests soil samples, concrete and other materials to ascertain their physical characteristics for use in highway construction; establishes the location and measurements of points, elevations, lines, areas and contours of land needed for highway construction and prepares hard copy, draft or computer generated drawings of same.

Estimator—determines quantities and costs of materials and labor required to erect structures.

Materials Tester—determines mechanical properties of materials used in the erection of structures and highways.

Surveyor—supervises, directs, and is responsible for the accuracy of the work of an engineering survey party engaged in determining the location and measurements of points, elevations, lines, areas, and contours on the earth's surface for purposes of securing data for building and highway construction, mapmaking, land valuation, mining, or other purposes.

ELECTRONICS ENGINEERING TECHNOLOGY

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The electronics engineering technology curriculum provides instruction in the fundamentals of modern electronics theory, with emphasis on the application of theoretical principles to actual electronic devices, circuits and systems. Graduates of the electronics technology sequence are prepared to function in these positions:

Research and Development Technologist—engages in the development, building and testing of new equipment in the areas of digital electronics, communication electronics and microelectronics.

Process Control Technologist—supervises the operation of automatic control equipment for industrial processes.

Field Engineering Specialist—installs, tests, and maintains equipment such as data processing machines and other electronic systems.

High Frequency Technologist—maintains and/or operates radar, sonar, and other warning detection and navigation devices.

MECHANICAL ENGINEERING TECHNOLOGY

Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology

The mechanical engineering technology curriculum provides an opportunity for a student to receive comprehensive engineering experience which will enable him to design machinery, test materials and supervise production and engineering projects. A graduate of the mechanical engineering technology program is qualified to assume the responsibilities of these positions:

Machine Designer—designs machines and instruments for industry.

Mechanical Engineering Technologist—works with mechanical engineers on design and production projects using CAD and CAM as techniques.

Quality Control Supervisor—supervises incoming materials and outgoing products as well as manages personnel to assure quality.

Project Supervisor—manages technical personnel and materials to implement engineering projects.

Systems Test Technologist—participates in testing systems to determine if they meet design specifications.

PROCESS ENGINEERING TECHNOLOGY

The curriculum for Process Engineering Technology has been designed to provide an opportunity for those students who have pursued the associate degree program in Chemical Engineering Technology, a broader learning experience that encompasses unit design, process instrumentation, electrical/electronics systems and other related subjects which are not components of the associate degree program.

With the competencies gained by this learning experience, the process engineering technologist can work with varied professionals in the chemical or other related industry as plant operators, process supervisors, quality control specialists, research associates or instrumentation specialists. They may be also employed in the petroleum and petro-chemical, metallurgical, coal conversion, and nuclear generation industry.

CIVIL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required	
English 107-108-109	15 hours
Humanities 232	5 hours
Area II—Mathematics and Natural Sciences: 20 hours required	
*Mathematics 108-109	10 hours
Physics 201-202	10 hours
Area III—Social Sciences: 20 hours required	
History 101, 202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours
Area IV—Courses Appropriate to the Major: 30 hours required	
Engineering Technology 101-105	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours

Additional Requirements:
- Physical Education ..... 6 hours
- Introduction to Science & Technology 100 ..... 3 hours

**Students whose score on the mathematics section of the SAT is less than 450 must take the prerequisite course for MAT 108 or must pass the MAT 107 Exemption Examination. This grid is merely a guide. Students should consult their advisor each quarter prior to registering.*

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 88 quarter hours
- Civil Engineering Technology 203, 211, 212, 213, 303, 311, 333, 343, 400, 401, 403, 411, 412, 413, 421, 423 ..... 68 hours
- Engineering Technology 202, 203, 223, 302, 230, 321, 422 23 hours
- General Electives ..... 6 hours

ELECTRONICS ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required
- English 107-108-109 ..... 15 hours
- Humanities 232 ..... 5 hours

Area II—Mathematics and Natural Sciences: 20 hours required
- *Mathematics 108-109 ..... 10 hours
- Physics 201-202 ..... 10 hours

Area III—Social Science: 20 hours required
- History 101, 202 ..... 10 hours
- Political Science 200 ..... 5 hours
- Psychology 201 or Economics 201 ..... 5 hours

Area IV—Courses Appropriate to the Major: 30 hours required
- Engineering Technology 101-105 ..... 10 hours
- Mathematics 212-213 ..... 10 hours
- Chemistry 101 ..... 5 hours
- Computer Science 150 ..... 5 hours

Additional Requirements:
- Physical Education ..... 6 hours
- Introduction to Science & Technology 100 ..... 3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 87 quarter hours
- Electronics Engineering Technology 103, 201, 202, 203, 213, 301, 302, 311, 313, 322, 323, 400, 401, 402, 431 .... 74 hours

Engineering Technology 223, 302, 422	8 hours
Mathematics 214	5 hours
General Electives	10 hours

**Students whose score on the mathematics section of the SAT is less than 450 must take the prerequisite course for MAT 108 or must pass the MAT 107 Exemption Examination. This grid is merely a guide. Students should consult their advisor each quarter prior to registering.*

MECHANICAL ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109	10 hours
Physics 201-203	10 hours

Area III—Social Science: 20 hours required

History 101-202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Engineering Technology 101-105	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours

Additional Requirements:

Physical Education	6 hours
Introduction to Science & Technology 100	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 97 quarter hours

Major Requirements: 94 hours as specified

Mechanical Engineering Technology 221, 223, 233, 302, 303, 312, 323, 331, 400, 401, 402, 410, 423, 431, 432	67 hours
Engineering Technology 202, 203, 223, 230, 302, 312, 321, 422	27 hours
General Electives	3 hours

PROCESS ENGINEERING TECHNOLOGY CURRICULUM

JUNIOR COLLEGE CURRICULUM:

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109	10 hours
Physics 201-203	10 hours

**Students whose score on the mathematics section of the SAT is less than 450 must take the prerequisite course for MAT 108 or must pass the MAT 107 Exemption Examination. This grid is merely a guide. Students should consult their advisor each quarter prior to registering.*

Area III—Social Science: 20 hours required

History 101-202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Engineering Technology 101-105	10 hours
Mathematics 212-213	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours

Additional Requirements:

Physical Education	5 hours
Introduction to Science & Technology 100	3 hours

SENIOR COLLEGE CURRICULUM:

Requirements: 98 quarter hours

Major Requirements: 98-97 hours as specified

Chemistry 102, 103, 307, 308, 401, 402	28 hours
Chemical Engineering Technology 101, 201, 202, 203, 301, 401, 402, 403, 411, 412, 413	44 hours
Engineering Technology 223, 302, 303, 312, 422, 331, 332-333	21 hours
Mathematics 214 or 404	5 hours

MAJOR COMPREHENSIVE EXAMINATION

To satisfy the institutional requirements for the comprehensive examination, all students in engineering technology are required to take an examination administered by the department.

MINORS IN TECHNOLOGY

These minors are available to any student in the College. Students in other schools are encouraged to pursue these minors for a possible second career or an avocation.

CONSTRUCTION (Not available to CET Majors)

Students may obtain a minor in Construction by completing 24 quarter hours of required courses and 5 quarter hours of specified electives:

ENT 101 Engineering Drawing	5 hours
ENG 105 Computer Graphics	5 hours
ENT 301 Architectural Drafting	5 hours
CET 211 Surveying I	5 hours
CET 212 Surveying II	4 hours
CET 203 Construction Management	5 hours
Total	25 hours

Specified Electives:

CET 223 Technical Writing	2 hours
CET 401 Construction Estimating	3 hours
ENT 202 Statics	5 hours
CET 213 Highway Design & Construction	5 hours
ENT 302 Engineering Economy	5 hours
CET 403 Environmental Systems	3 hours
CET 411 Soil Mechanics	4 hours

DESIGN AND DRAFTING

Students may obtain a minor in Design and Drafting by completing 19 quarter hours of required courses and selecting 8 to 10 quarter hours of specified electives:

ENT 101 Engineering Drawing I	5 hours
ENT 105 Computer Graphics	5 hours
ENT 301 Architectural Drafting	5 hours
ART 103 Drawing I	4 hours
Total	19 hours

Specified Electives:

ART 200 Lettering	4 hours
ART 302 Photography	5 hours
ART 430 Printmaking I	4 hours
ENT 304 Industrial Design	5 hours

ELECTRONICS (Not available to EET, CPT and CSC Major)

Students may obtain a minor in Electronics by completing 24 quarter hours of required courses and 5 quarter hours of specified electives:

EET 103 Direct Current Circuits	4 hours
EET 201 AC Circuit Analysis	5 hours
EET 203 Electronic Principles	5 hours
EET 311 Digital Circuits I	5 hours
EET 322 Digital Circuits II	5 hours
Total	24 hours

Specified Electives:

ENT 101 Engineering Drawing	5 hours
EET 323 Microcomputer Systems	5 hours
EET 304 Special Problems in Electronics	5 hours

GENERAL TECHNOLOGY (Not available to ENT Majors)

Students may obtain a minor in General Technology by completing 14 quarter hours of required courses and 15 quarter hours of specified electives:

ENT 101 Engineering Drawing	5 hours
CSC 125 Introduction to Computer Science	3 hours
ENT 223 Technical Writing	2 hours
EET 312 Electrical Fundamentals	4 hours
Total	14 hours

Specified Electives:

ENT 105 Computer Graphics	5 hours
MET 223 Manufacturing Processing	5 hours
ENT 301 Architectural Drafting	5 hours
MET 410 Robotic Applications	3 hours

MECHANICAL TECHNOLOGY (Not available to MET Majors)

Students may obtain a minor in Mechanical Technology by completing 19 quarter hours of required courses and 10 quarter hours of specified electives:

MET 221 Metallurgy	5 hours
MET 323 Material and Processes	5 hours
MET 223 Manufacturing Processing II	5 hours
MET 423 Industrial Engineering	4 hours
Total	19 hours

Specified Electives:

MET 331 Thermodynamics	5 hours
ENT 302 Engineering Economy	5 hours
MET 233 Fluid Mechanics	5 hours
MET 410 Robotics Applications	3 hours

INDUSTRIAL TECHNOLOGY MANAGEMENT

Students may obtain a minor in Industrial Technology Management by completing 28 quarter hours of required courses:

ITM 301 Motion and Time Study	5 hours
ITM 302 Quality Control	5 hours
ITM 303 Cost Estimating	5 hours
ITM 304 Production and Inventory Control	5 hours
ENT 223 Technical Writing	2 hours
ENT 302 Engineering Economy	5 hours
ENT 422 Engineering Technology Seminar	1 hour

CERTIFICATE PROGRAM

The department offers a certificate program and a minor in Industrial Technology Management. The certificate program is designed for non matriculating students.

Both programs are directed at individuals who are aspiring to management or are just entering a management position. The course content is designed to assist the industrial manager in the management of people, quality, costs, and production.

The major objective of these courses is to enable the participant to perform the activities expected of managers, namely: plan, organize, command, coordinate, and control.

Graduates with a degree in Engineering Technology and a minor in Industrial Technology Management are prepared to function as first line managers in either an industrial position or a service position.

Certificate Requirements

ITM 301 Motion and Time Study	5 hours
ITM 302 Quality Control	5 hours
ITM 302 Cost Estimating	5 hours
ITM 304 Production and Inventory Control	5 hours
Total	20 hours

ASSOCIATE OF SCIENCE DEGREE IN ENGINEERING TECHNOLOGY

The Regular Associate Degree Programs

CHEMICAL ENGINEERING TECHNOLOGY

Core Curriculum Requirements: 90 quarter hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109	10 hours
Physics 201-203	10 hours

Area III—Social Science: 20 hours required

History 101, 102	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Engineering Technology 101, 105	10 hours
Chemistry 101	5 hours
Computer Science 150	5 hours
Mathematics 212-213	10 hours

Additional Requirements: 42 quarter hours

Introduction to Sciences & Technology	3 hours
Engineering Technology 223, 302, 422	8 hours
Chemistry 102, 103, 307, 308	20 hours
Chemical Engineering Technology 101, 201, 202	11 hours

COMPUTER ENGINEERING TECHNOLOGY

This program is designed to prepare technicians for the expanding opportunities available in the digital computing field. The program emphasizes electronic and electromechanical aspects of digital computing systems. Graduates are prepared for employment opportunities in the installation and maintenance of digital equipment, application of computers to industrial control and data acquisition, and development of new devices, systems and test equipment. This degree can not be awarded concurrently with any baccalaureate degree in engineering technology.

Core Curriculum Requirements: 90 quarters hours

Area I—Humanities: 20 hours required

English 107-108-109	15 hours
Humanities 232	5 hours

Area II—Mathematics and Natural Sciences: 20 hours required

*Mathematics 108-109	10 hours
Physics 201-202	10 hours

Area III—Social Science: 20 hours required

History 101, 202	10 hours
Political Science 200	5 hours
Psychology 201 or Economics 201	5 hours

Area IV—Courses Appropriate to the Major: 30 hours required

Engineering Technology 101-105	10 hours
Mathematics 212-213	10 hours
Computer Science 150	5 hours
Chemistry 101	5 hours

Additional Requirements: 52 quarter hours

Introduction to Sciences & Technology	3 hours
Engineering Technology 223, 422	3 hours
Electronics Engineering Technology 201, 311, 322, 323, 103	24 hours
Computer Science 125 and 164, 250 or 362	8 hours
Computer Technology 203, 211, 212, 213	14 hours

DUAL DEGREE PROGRAM

PRAVIN K. RAUT, Coordinator

Savannah State College has entered into an agreement with Georgia Institute of Technology to offer a Dual Degree Program whereby undergraduate students can attend this institution for approximately three academic years and the latter institution for approximately two academic years and receive baccalaureate degrees from both institutions. This program is open to majors in chemistry, mathematics, and civil, electronics, and mechanical engineering technology.

Bachelor's degrees offered at Georgia Institute of Technology as a part of this program are in aerospace engineering, ceramic engineering, chemical engineering, civil engineering, electrical engineering, mechanical engineering, nuclear engineering, science in textile chemistry, science in textiles, and textile engineering.

In order for a student to become a dual degree candidate at Georgia Institute of Technology, he must have:

1. A college grade point average and specific test results which would indicate that he could satisfactorily complete the degree requirements at Georgia Institute of Technology.
2. A recommendation from the Dual Degree coordinator.
3. Completed 145-150 quarter hours at Savannah State College in the below listed courses according to his major.

GENERAL REQUIREMENTS

SST 100 Introduction to Sciences and Technology	3 hours
ENG 107-108-109 English Communicative Skills	15 hours
HMN 232 Introduction to the Humanities	5 hours
HIS 101 History of World Civilizations	5 hours
HIS 202 History of United States	5 hours
PSC 200 Government	5 hours
CHE 101-102 General Inorganic Chemistry I-II	10 hours
PHY 206 Mechanics and Heat	5 hours
PHY 207 Sounds and Optics	5 hours
PHY 208 Magnetism, Electricity and Modern Physics	5 hours
MAT 212-213-214 Analysis I-II-III	15 hours
MAT 404 Differential Equations	5 hours
ENT 202 Statics	5 hours
Total	88 hours

CIVIL ENGINEERING TECHNOLOGY MAJOR

ENT 101 Engineering Drawing	5 hours
ENT 105 Computer Graphics	5 hours
ENT 203 Dynamics	3 hours
ENT 321 Strength of Materials	5 hours
MET 312 Stress Analysis	5 hours
CET 211-212 Surveying I-II	10 hours
CET 203 Construction Management	3 hours
CET 401 Construction Estimating	3 hours
ENT 223 Technical Writing	2 hours
ENT 422 Engineering Technology Seminar	1 hour
MAT 108 College Algebra and Trigonometry	5 hours
CSC 150 Computer Programming (Fortran)	5 hours
Total	55 hours

ELECTRONICS ENGINEERING TECHNOLOGY MAJOR

ENT 101 Engineering Drawing	5 hours
ENT 105 Computer Graphics	5 hours
EET 103 Direct Current Circuits	4 hours
EET 201-202 Alternating Current Circuits I-II	10 hours
EET 203-301 Electronic Principles I-II	10 hours
EET 302 Electronic Circuits OR	5 hours
EET 311 Digital Circuits I	
CSC 150 Computer Programming (FORTRAN)	5 hours
MAT 108 College Algebra and Trigonometry	5 hours
ENT 223 Technical Writing	2 hours
ENT 422 Engineering Technology Seminar	1 hour
Total	52 hours

MECHANICAL ENGINEERING TECHNOLOGY MAJOR

ENT 101 Engineering Drawing	5 hours
ENT 105 Computer Graphics	5 hours
ENT 203 Dynamics	3 hours
ENT 321 Strength of Materials	5 hours
MET 221 Metallurgy	5 hours
MET 312 Stress Analysis	5 hours
MET 223 Manufacturing Processing	5 hours
MET 323 Materials and Processes	5 hours
MAT 108 College Algebra and Trigonometry	5 hours
ENT 223 Technical Writing	2 hours
ENT 422 Engineering Technology Seminar	1 hour
CSC 150 Computer Programming (FORTRAN)	5 hours
Total	61 hours

CHEMISTRY MAJOR

MAT 107-108 College Algebra and Trigonometry	10 hours
CHE 103 General Inorganic Chemistry	5 hours
CHE 303-304 Analytical Chemistry	10 hours
CHE 305 Instrumental Methods of Analysis	4 hours
CHE 307-308 Organic Chemistry	10 hours
CHE 309 Qualitative Organic Analysis	5 hours
CHE 313-409-410 Organic Preparation	4 hours
GER 151-152 Elementary German	10 hours
Total	58 hours

MATHEMATICS MAJOR

MAT 107-108 College Algebra and Trigonometry	10 hours
MAT 217 Introduction to Probability and Statistics	5 hours
MAT 315-316 Modern Algebra I-II	10 hours
MAT 318 Advanced Probability	5 hours
CSC 150 Computer Programming I	5 hours
MAT 320 Theory of Equations	5 hours
Elementary French, German or Spanish	15 hours
Total	55 hours

DESCRIPTION OF COURSES

ENGINEERING TECHNOLOGY (ENT)

101. Engineering Drawing. (3-7-5)
A study of applied geometry, orthographic projection pictorial drawings, descriptive geometry and other related topics. *Fall, Winter, Spring*

102. Technical Graphics (2-4-3)
This course is designed for students in engineering technology who have a need to reinforce their skills in engineering drawing and for non majors as a prerequisite for ENT 105. It is not a substitute for ENT 102 or 105. *Fall, Winter, Spring.*

103-4. Engineering Drawing Problems. (3-7-5)

Topics in engineering drawing are studied on an individual basis. Each course may be substituted for ENT 101, 102 or 105. *Summer.*

105. Computer Graphics. (2-6-5)

An introduction to compute graphics hardware and software with emphasis on hands-on-experience using one or more CAD systems. Prerequisite: ENT 101 or 102, MAT 108. *Winter.*

110. Engineering Calculations. (0-2-1)

This course will enhance the student's basic computational skills. Numerical approximation; units systems and units conversions; graphical representation of data; and problem solving techniques will be emphasized. Prerequisite: MAT 108.

202. Statics. (5-0-5)

A study of the mechanics of rigid bodies in equilibrium. Analysis of forces and moments in two and three dimensional systems and moment of inertia of areas will be studied and applied to engineering problems. Prerequisites: MAT 108, ENT 102. *Winter.*

203. Dynamics. (3-0-3)

A study of kinematics, kinetics, energy, power, momentum, and periodic motion. Prerequisite: ENT 202. *Spring.*

223. Technical Writing. (2-0-2)

Designed to develop skills in writing technical reports, and research papers; illustrating technical data; making oral presentations; and participating in group communications. Prerequisite: ENG 109. *Fall, Spring.*

***230. Applied Mathematics for Engineering Technology. (2-0-2)**

This course is designed to engineering technology students. The course consists of selected topics in matrix algebra, vectors, calculus, and statistics with emphasis on their application in each engineering technology discipline. Prerequisite: MAT 213.

241. Introduction to Power. (3-4-5)

A brief study of the sources of electrical power production and transmission devices with emphasis on methods of energy conservation. This includes the study of (1) nuclear energy, solar energy and conventional power plants; (2) single and three phase transformers and power distribution systems; (3) the principles of heating, cooling and heat loss of enclosures, including modern day trends of energy conservation. Prerequisites: EET 103, ENT 312 or IAE 312, MAT 108.

300. Computer Application in Technology. (1-3-2)

The application of BASIC and/or FORTRAN programming in the solving of engineering technology problems. Prerequisites: CSC 150 and junior standing in a technology major. *Fall, Winter, Spring.*

301. Architectural Drafting. (3-7-5)

A study of house planning and the making of architectural working drawings. Prerequisite: ENT 102.

302. Engineering Economy. (5-0-5)

Techniques for comparing alternatives by the use of engineering methods of analysis, applied economics and accounting. Economic considerations include the impact of taxes, methods of depreciation, and forecasting of cost-benefits of alternate methods on a present-value basis. Prerequisite: MAT 108 and junior standing in engineering technology.

303. Engineering Materials. (3-3-3)

Introduction to mechanical properties of engineering materials including metals, alloys, ceramics, plastics, rubbers, and composites. Description and measurement of physical, chemical, and structural characteristics affecting strength of materials in service. Application of materials selection in design of systems and processes. Prerequisites: CHE 103, PHY 203, ENT 101. *Spring.*

304. Industrial Design. (3-4-5)

Opportunities are provided for the development of design sensitivity and an appreciation for the aesthetic quality of products. Consideration is given also to the analytical and problem-solving procedures of the industrial designers. Prerequisite: ENT 102.

312. Electrical Fundamentals. (3-2-4)

A study of DC, AC and three-phase circuits, as well as transients and magnetic fields. Laboratory experiences will emphasize and demonstrate the electrical theory. Prerequisite: MAT 109, PHY 202 or 203. *Fall.*

321. Strength of Materials. (3-4-5)

A study of loading diagrams, force fields, stress, strain, elastic constants and deflection. Prerequisites: MAT 213, ENT 202. *Fall.*

331. Instrumentation I. (2-0-2)

An introductory course dealing with the fundamentals and techniques of the measurement of basic industrial parameters of heat, pressure, and flow. Prerequisites: CHT 201, 202. *Fall.*

332. Instrumentation II. (2-0-2)

This course deals with the techniques of measurement of level, calorimetry, vicometry, density, and chemical reaction. Aspects of the theory of measurement are discussed and applied to problem solving. Prerequisite: ENT 331. *Winter.*

333. Instrumentation III. (0-4-2)

This is a laboratory course which permits the student to perform instrument calibrations (pressure, temperature, flow, etc.) and to fabricate specific test units, such as thermocouples, resistance thermometers, and special devices. Measurement of various parameters will be made in the laboratory under simulated industrial conditions and environment. Prerequisite: ENT 332. *Spring.*

422. Engineering Technology Seminar. (1-0-1)

Covers a wide range of theory, techniques and application as related to the respective technical programs. Lectures by authorities in various fields and industrial tours are scheduled in order to stimulate interest in the respective fields. *Winter.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

CIVIL ENGINEERING TECHNOLOGY (CET)

All courses require the completion of MAT 108 and ENT 105 in addition to the listed prerequisites.

203. Construction Management. (3-0-3)
This course will enhance the student's understanding of construction management, including the interrelated roles of human relations, management control systems, finance information systems, engineering systems and construction techniques. Topics on planning, scheduling and expediting will be covered, including CPM and PERT. Prerequisites: MAT 108, ENT 202. *Spring.*

211. Surveying I. (2-6-5)
A study of surveying instruments; measurements of distances, elevations, angles, and directions; differential and profile leveling; calculating land areas. Prerequisites: ENT 101, MAT 108. *Fall.*

212. Surveying II. (3-2-5)
A study of land, route, and construction surveying. Prerequisite: CET 211. *Winter.*

213. Highway Design and Construction. (3-4-5)
A study of the fundamentals of highway design including highway layout, foundations and pavements; grade intersections and separations; traffic requirements. Prerequisites: CET 212, CSC 150. *Spring.*

303. Hydraulics. (3-2-4)
The analysis and design of hydraulic works, fluid properties, hydrostatic pressure, fluid motion, analysis of pipe flow, pipe systems, uniform flow in channels, pumps and turbines, and hydraulic models. Prerequisite: ENT 202. *Spring.*

306. Problems in Civil Engineering Technology. (5-0-5)
Topics and problems of special interest will be studied on an individualized basis. Can be substituted for a civil engineering technology course or elective at the discretion of the department head. Prerequisite: MAT 109, CSC 150 and consent of instructor. *Summer.*

311. Transportation Systems. (3-0-3)
The study of locating and designing railways, waterways and other transportation modes. Emphasis will be placed on the linkage of these modes for the effective and economic movement of people, materials, and equipment. Prerequisite: CET 212. *Fall.*

323. Advanced Surveying. (3-4-5)
This course will provide instruction in the areas of coordinate systems, field astronomy, aerial photogrammetry and the legal aspects of surveying. Prerequisite: CET 212. *Offered on demand.*

333. Structural Analysis. (5-0-5)
An introduction to the theory of statically indeterminate structures. Course content includes unit load, moment distribution, space frames, influence lines, graphic statics, slope deflection, matrix, and analysis. Prerequisites: ENT 202, 203, 321. *Spring.*

343. Water and Sewage Systems. (3-4-5)
A study of sources, collection, treatment, and distribution of municipal water and sewage systems. Course content includes water chemistry, network analysis, sanitary and storm water sewer design, and related topics. Prerequisite: CET 303.

400. Senior Design Project. (1-8-5)
The student correlates all previous information studied, and conceives, designs and develops the drawings, specifications, and estimate for an approved structure. Prerequisites: CET 203, 401, 412, *Winter.*

401. Construction Estimating. (2-2-3)
A study of the mathematical techniques used to estimate the cost of the equipment, labor, and materials involved in constructing highways and buildings. Emphasis is also placed on the study of codes, contracts, specifications, and the bidding process. Prerequisite: CET 203. *Fall.*

403. Environmental Systems. (3-0-3)
A study of the environmental impact on the ecosystem. Emphasis is placed on the application of engineering practices in solving environmental problems such as air pollution, water pollution, solid waste and residue, and hazardous waste. Prerequisite: CET 303. *Spring.*

411. Soil Mechanics. (2-4-4)
A study of the physical properties of soils as a construction material as well as a foundation for buildings. Topics include soil classification, grain size analysis, stress analysis, Mohr's circle, Atterberg limits, permeability, shear strength, consolidation and settlement. Prerequisite: CHE 101, ENT 202. *Fall.*

412. Reinforced Concrete Design. (3-4-5)
Scientific principles and drafting room practices involved in designing reinforced concrete structures. Prerequisites: ENT 202, 321, CET 333. *Winter.*

413. Foundation Design. (3-0-3)
The application of the principles of soil mechanics and structural theory to the analysis, design, and construction of foundations for engineering works will be studied. Emphasis will be placed on the soil engineering aspects of soil-structure interaction as well as soil bearing capacity and settlement, spread footings, pile and caisson foundations, retaining structures, and substructure elements. Prerequisite: CET 411. *Spring.*

421. Steel Structures. (3-4-5)
A study of structural design procedures utilizing latest design methods according to building codes. The complete design of structures in steel, from conception to working drawings, is required as an integrative project. Prerequisites: ENT 202, 321, CET 333. *Fall.*

423. Urban Planning and Design. (3-4-5)
This course will provide instructions in the planning and spatial design of urban development with special attention to the aesthetic, functional and environmental factors. Prerequisites: ENT 302, CET 203, 212, 213. *Spring.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

ELECTRONICS ENGINEERING TECHNOLOGY (EET)

All courses require the completion of MAT 108 and ENT 105 in addition to the listed prerequisites.

103. Direct Current Circuits. (3-2-4)
An introductory DC-circuits course dealing with Ohm's law, Kirchoff's voltage and current laws, superposition theorem, maximum power transfer theorem. Thevenin's and Norton's theorems. Laboratory activities familiarize students with the use of analog and digital multimeters, and DC power supplies. Prerequisites: MAT 108, ENT 105. *Spring.*

201. Alternating Current Circuit Analysis I. (3-4-5)

An introduction to electric and magnetic fields, meter construction, capacitance, inductance, time constants and the use of phasor notation for calculating AC circuit voltage, current and impedance. Laboratory activities include the operation of function generators, counters and oscilloscopes. Prerequisites: EET 103, MAT 109, ENT 110. *Fall.*

202. Alternating Current Circuit Analysis II. (3-4-5)

A continuation of AC circuit theory, AC power, network theorems, resonance, transformers and Fourier series. Students are introduced to the use of the spectrum analyzer and digital computer in the laboratory. Prerequisites: EET 201, MAT 109. *Winter.*

203. Electronic Principles I. (3-4-5)

A study of basic theory and applications of semiconductor devices. Rectifier clipper and clamper circuits. BJT transistor characteristics and biasing circuits, and FET transistors and biasing circuits. Laboratory activities include diode, BJT and FET characteristics curves, design of DC power supplies and transistor biasing circuits. Prerequisites: EET 202, MAT 212. *Spring.*

213. Electrical Machinery. (4-2-5)

A study of 3 phase power distribution systems, transformers, DC and AC motors and generators. Prerequisites: EET 202, MAT 212. *Spring.*

301. Electronic Principles II. (3-4-5)

Continuation of EET 203. AC equivalent circuits of transistors, input and output impedance of voltage amplifiers. Class A, class B and class C power amplifier circuits. Prerequisites: EET 203, MAT 213. *Fall.*

302. Electronic Circuits. (3-4-5)

A study of various electronic circuits including negative and positive feedback amplifiers, RF and broadband amplifiers, oscillators, voltage regulation, integrated circuits and operational amplifiers. Prerequisites: EET 301, MAT 213. *Winter.*

304. Special Problems in Electronics. (3-4-5)

Topics and problems of special interest will be studied on an individualized basis. Can be substituted for an electronics engineering technology course or elective at the discretion of the department head. Prerequisites: MAT 212, EET 103, CSC 150 and consent of instructor. *Summer.*

311. Digital Circuits I. (3-4-5)

A study of the fundamentals of digital electronics, including number systems, codes, Boolean algebra, logic gates, adders and multivibrators. Prerequisites: EET 202, 203, MAT 213, CSC 150. *Fall.*

313. Communication Electronics. (4-2-5)

A study of basic theory, devices, circuits and systems for the generation, processing and receiving of communication signals, including AM, FM, Single Side Band, and Pulse Modulation. Prerequisites: EET 301, 302, MAT 214. *Spring.*

322. Digital Circuits II. (3-4-5)

Continuation of EET 311. A study of counters, shift registers, input-output devices, D/A and A/D conversion, memories and arithmetic circuits. Prerequisites: EET 301, 311, MAT 214, CSC 150. *Winter.*

323. Microcomputer Systems. (3-4-5)
Analysis of basic microprocessor and microcomputer systems, including bus structure, address decoding, memory, I/O and peripheral devices. Programs are written in machine language. Prerequisites: EET 311, 322, MAT 214, CSC 150. *Spring.*

341. DC and AC Machines. (4-2-5)
Introduction to DC machines, three-phase induction machines, synchronous machines, and single-phase machines. Three phase transmission systems, including power measurements, transients and system stability. Prerequisites: ENT 241, or EET 201, MAT 213.

400. Senior Design Project. (1-8-5)
The student correlates all previous information studied, and conceives, designs and fabricates or evaluates an approved electronic project. A written technical report is required. Prerequisites: Completion of all EET courses and Senior Standing. *Winter.*

401. Advanced Network Analysis. (5-0-5)
Frequency domain analysis of audio amplifiers, active and passive filters using Laplace transformations and Bode plots. Introduction to circuit analysis using digital computers. Prerequisites: EET 203, 302, MAT 214. *Fall.*

402. Industrial Electronics. (3-4-5)
A study of the necessary background for understanding the concept and utilization of various electronics devices, circuit and system which are essential in industrial control and automation. Prerequisites: EET 302, 322, 401, MAT 214. *Winter.*

431. Transmission Lines and Microwaves. (4-2-5)
A study of transmission lines, transmission line charts, impedance matching, guides, resonant cavities and microwave tubes. Prerequisites: MAT 214, EET 301. *Fall.*

441. Static Motor Control Systems. (3-4-5)
A study of the fundamentals of control and drive circuits used to alter the speed of AC and DC machines, including incremental and positional control circuits. Laboratory exercises cover the use of the basic AND, OR and NOT circuits, solid state relays, memory devices, adjustable time delays, and microcomputers. Prerequisites: EET 341 or 323, MAT 213, CSC 150.

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

MECHANICAL ENGINEERING TECHNOLOGY (MET)

All courses require the completion of MAT 108 and ENT 105 in addition to the listed prerequisites.

221. Metallurgy. (3-4-5)
A study of metals, alloys and their properties. Instruction will include heat treatment, metallography and phase diagrams. Prerequisite: CHE 101. *Fall.*

223. Manufacturing Processes. (2-6-5)
A study of the machining processes of manufacturing products. Laboratory practices are provided in turning, milling, shaping, drilling, and grinding processes. Prerequisite: MET 222. *Spring.*

233. Fluid Mechanics. (3-4-5)
A study of hydrostatics, viscosity, dimensional constants and the fluid flow in pipes. Prerequisite: ENT 202. *Spring.*

302. Kinematics. (2-4-4)
Graphical and analytical methods are used to determine displacements, velocities and accelerations in mechanisms. Prerequisite: ENT 203. *Winter.*

303. Dynamics of Machinery. (2-4-4)
A study of forces acting on the parts of a machine and the motion resulting from these forces. Prerequisite: MET 302. *Spring.*

305. Problems in Mechanical Engineering Technology. (5-0-5)
Topics and problems of special interest will be studied on an individualized basis. Can be substituted for a mechanical engineering technology course or elective at the discretion of the department head. Prerequisites: MAT 109 and consent of instructor. *Summer.*

312. Stress Analysis. (3-4-5)
Theoretical and experimental study of one and two dimensional stress analysis of beams, cylinders, etc., subjected to axial, bending or torsional forces. Prerequisite: ENT 321. *Winter.*

323. Material and Processes. (3-4-5)
A study of the ferrous, non-ferrous, plastics, ceramics, composites and advanced materials as well as various forming processes. Prerequisite: MET 221. *Spring.*

331. Thermodynamics. (5-0-5)
A study of the fundamental principles of extracting energy from working fluids. Prerequisites: MAT 213, CHE 101. *Fall.*

400. Senior Design Project. (1-8-5)
A hands-on design project aimed at putting the knowledge gained from the study of the machine design courses into reality. Prerequisite or corequisite: MET 402 and Senior Standing.

401. Machine Design I. (2-4-4)
A study of failure criteria, due to static and fatigue loading, and the design of screws shafts. Prerequisites: ENT 102, MET 312, 303. *Fall.*

402. Machine Design II. (2-4-4)
The design of springs, bearings, gears, belts, clutches, brakes and connections. Prerequisite: MET 401. *Winter.*

410. Robotic Applications. (1-4-3)
A study of robotic applications in industry. This course is designed to provide students with practical experience on an IBM industrial robot and with its work cells. Prerequisite: CSC 125 or CSC 150.

423. Industrial Engineering. (4-0-4)
An introduction to industrial systems, plant layout, material handling and packaging, production and quality control, time and motion studies and other related topics. Prerequisite: MET 323 or consent of instructor. *Spring.*

431. Heat Transfer. (3-4-5)
An introduction to heat conduction, convection and radiation and its applications to engines, heat exchangers, air conditioning and refrigeration systems. Prerequisites: MET 233, 331. *Fall.*

432. Mechanical Power. (2-4-4)
The application of thermodynamics to internal and external combustion engines, including their efficiencies and performance parameters. Refrigeration systems are also examined. Prerequisite: MET 331.

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered during another quarter. Always consult your advisor.

COMPUTER ENGINEERING TECHNOLOGY (CPT)

All courses require the completion of ENT 101 and MAT 212 in addition to the listed prerequisites.

203. Principles of Computer Electronics. (3-4-5)
This course will emphasize the theory and application of unipolar and bipolar devices, rectifier circuits, filters and basic amplifier configurations. Prerequisites: CSC 362, EET 202, 322, CPT 212. Corequisites: EET 323, CPT 213. *Spring.*

211. Computer Architecture I. (1-4-3)
The study of the functional operations of computer peripherals of the variety of types. Included in the course will be the study of processor/peripheral control dialogue and data transfer. Practice in electromechanical alignment and trouble shooting techniques will be included. Prerequisites: CSC 125, 150, EET 103. Corequisites: EET 201, 311. *Fall.*

212. Computer Architecture II. (1-4-3)
A study of the interrelationships of hardware and software. Emphasis will be placed on determining software and hardware failures. Instruction will be given in the use of diagnostic programs to identify and isolate failing devices or subsystem. The proper techniques for making satisfactory repairs will be demonstrated. Prerequisites: EET 201, 311, CPT 211, CSC 125, 150. Corequisites: EET 202, 322, CSC 362. *Winter.*

213. Computer Architecture III. (1-4-3)
A study of the interrelationships of software and hardware at the system level. The use of operating systems as well as customer software to debug hardware generated faults in the compiler system will also be included. Prerequisites: EET 202, 311, CPT 212, CSC 362. Corequisites: EET 323, CPT 203. *Spring.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered at another time. Always consult your advisor.

CHEMICAL ENGINEERING TECHNOLOGY (CHT)

101. Introduction to Chemical Engineering Technology. (1-0-1)
This course is designed to acquaint the students enrolled in the Chemical Technology and Process Engineering Technology programs an overview of the chemical, petroleum, pharmaceutical, food processing, and other allied industries which would employ graduates of both curricula. Speakers from the various industries will present information about the types of positions and responsibilities of these positions. *Winter.*

201. Process Operations. (5-0-5)
An introductory course in the study of materials and energy balances in relation to industrial processes. Included are a study of units, measurement systems, thermochemistry, and the first law of thermodynamics. The first principles of SI units, decimal, and English measurement systems are presented for application to problem solving in areas of chemical process, and the handling of multiple by-pass and recycle streams. Prerequisites: MAT 212, CHT 101, CHE 103. *Fall.*

202. Heat Transfer and Fluid Flow. (4-3-5)

This course will acquaint the student with the first principles of fluid flow and energy transport. Study topics include conduction, convection and radiation heat transfer, heat exchanges, incompressible viscous flow in conduits, mixing, characteristics of pumps, and flow through packed beds. Prerequisites: CHT 201, MAT 213. *Winter.*

203. Unit Operations. (3-4-5)

Principles and designs of equilibrium stage operations applied to distillation, solvent extraction, absorption, leaching and absorption. Graphical methods for solving practical problems are emphasized. Prerequisites: CHT 202, CSC 150. *Spring.*

301. Transport Phenomena. (3-4-5)

Introduction to the fundamentals of heat, mass and momentum transfer. Also covered in this course are humidification, drying and evaporation. Prerequisite: CHT 203. *Fall.*

401. Particle-Fluid Mechanics. (3-0-3)

This course covers process engineering operations involving particle/fluid mechanics. Topics covered include packed beds, fluidsed beds, filtration and sedimentation. Prerequisite: CHT 203. *Fall.*

402. Process Engineering Economics. (3-0-3)

Capital requirements for process plants, production costs, earnings and profits. The economic balance is applied to several process engineering operations. A student project on the economic analysis of a process is required in this course. Prerequisites: CHT 401, ENT 302. *Winter.*

403. Reactor Design. (2-6-5)

Application of material and energy balances, chemical equilibrium relations and chemical kinetic expressions to the design of chemical reactors. Prerequisites: CHT 411, CSC 150. *Winter.*

411. Process Thermodynamics. (4-0-4)

Basic concepts and use of the thermodynamic functions of entropy, enthalpy, and free energy; relationships among variables; properties of pure fluids and mixtures; exchange of properties on mixing; application of the conditions of thermodynamics equilibrium or defined by Gibbs to phase and chemical equilibria; thermodynamic process and efficiencies. Prerequisites: ENT 333, CHT 301. *Fall.*

412. Process Design. (0-6-3)

This course concentrates on piping design problems associated with heat exchangers, pumps, horizontal and vertical vessels, pipeways, and plant layouts. Emphasis is placed on the design and preparation of the drawings for these subsystems. Includes a comprehensive chemical process plant design project. Prerequisites: ENT 102, CHT 401. *Spring.*

413. Process Control. (4-2-5)

The content of this course will include the dynamic response and control of process equipment such as heat exchangers, chemical reactors, absorption towers, etc. Prerequisites: CHT 401, 402, 412. *Spring.*

The quarter listed after each course is merely a guide. Circumstances may cause a course to be offered during another quarter. Always consult your advisor.

INDUSTRIAL ARTS AND TRADE AND INDUSTRIAL EDUCATION

The Department of Engineering Technology cooperates with the School of Education, Armstrong State College in offering a Bachelor of Science in Education degree with majors in Industrial Arts Education and Trade and Industrial Education. Course work in the major field of study for these programs is offered at Savannah State College, while the remaining course work is offered at Armstrong State College. For information regarding curricula and courses, refer to the *Armstrong State College Bulletin*.

Students who began their respective programs at Savannah State College may have course taken at Savannah State College substituted for reasonably equivalent courses at Armstrong State College.

Students interested or currently participating in either of these programs should confer with the head of the Department of Secondary Education at Armstrong State College and the head of the Department of Engineering Technology at Savannah State. For information regarding curricula and courses, refer to the **Armstsrong State College Bulletin.**

DEPARTMENT OF NAVAL SCIENCE (NAVAL ROTC)

CDR EDWARD CLARK, JR., USN, Professor of Naval Science

Lt Col Ronald L. Taylor, USMC
Lt Robert Vlosky, USNR
Lt Matthew W. Gill, USNR
Lt (jg) Greg Whitlow, USN
SKC Vic Victoria
NCCS Archie L. Sanders, USN
YNC (SS) Donald W. Sugg, USN
Elizabeth P. Evans, Government Secretary
Rose B. Tyson, College Sr. Secretary

GENERAL

Naval Reserve Officer's Training Corps (NROTC) prepares students for commissioned service as regular or reserve officers in the Navy or Marine Corps.

Students enrolled in NROTC are referred to as Midshipmen (MIDN) or as Naval Science Students (NSS) and are classified based on Naval Science Academic Status as follows:

SSC Student	NROTC Midshipmen	
Senior	1/C	(First Class)
Junior	2/C	(Second Class)
Sophomore	3/C	(Third Class)
Freshman	4/C	(Fourth Class)

NAVAL SCIENCE CURRICULUM

BASIC PROGRAM

ALL MIDSHIPMEN:

Naval Science: 18 hours

NSC 101-102, 104	8 hours
NSC 203, 204	10 hours

Advanced Program - Navy option

Naval Science: 26 hours

NSC 301-302, 304-305-306	18 hours
NSC 401-402-403-404-405	8 hours

Advanced Program - Marine Corps Option

Naval Science: 12 hours

NSC 307-308-309	6 hours
NSC 406-407	6 hours

Additional and Substitute Requirements

NSC 450 Naval Drill (0-2-0), required each academic term by all midshipmen.

NSC 301, 302 and 450 satisfies the (6 hours) of physical education requirements.

Navy Scholarship Midshipmen:

(1) Requirements: 53 hours

Math 212-213-214 (to be completed by end of Sophomore Year)	15 hours
Physics 306-307-308 (to be completed by end of Junior Year)	15 hours
Computer Science 150 or 164 or 215	5 hours
HIS 201and PSC 201	10 hours

Must complete one academic term in a major Indo-European or Asian Language prior to commissioning.

(2) Navy Option in a non-technical curricula shall complete a sufficient number of technical electives from the below list to comprise 50 percent of all electives not required by the academic major or NROTC Program. Calculus and Physics courses count towards satisfying this requirement:

Business: BAD 331, 332, 416

Chemistry: Any listed course

Math, Phy, Physical Science: any listed courses except Math 290 391 and 393

Computer Science: CS 130, 142, 242

Engineering Technology: Any listed course except MAT 290, 391 and 393

Navy College Program Midshipmen (non-scholarship)

Must complete 1 year of Math, college algebra or higher, by the end of the Junior Year and 1 year of Physical Science by the end of the Senior Year as a prerequisite for commissioning. The Physical Science requirement can be met by completing a one-year sequence, or two courses, in any area of physical science. One Mathematics course may be selected from the fields of computer science or statistics.

Marine Corps Option

All students shall take, during the Junior or Senior Year, HIS 201, PSC 201. (Courses must be approved by the Marine Corps Officer Instructor and should not create an academic overload (increase time required for degree completion/ commissioning and/or require student to carry more than 18 hours).

NROTC Uniforms, Books, and Instructional Materials

Will be issued at no cost to Naval Science students. Uniforms must be returned before commissioning or upon disenrollment from the NROTC Program; books and other instructional materials must be returned at the end of each academic term.

Scholarship Programs

Two and three and-a half year Scholarships that pay tuition, fees, books and laboratory expenses, in addition, scholarship midshipmen also receive a $100 per month tax free stipend during the academic year. Additionally the PNS has six 4-year scholarship to be awarded to local high school graduates.

Financial Assistance

All midshipmen in the advanced NROTC Program (Junior and Senior Years) are paid a $100 per month tax free subsistance allowance (same as $100 per month stipend for scholarship midshipmen).

Summer Training Cruises

All Scholarship midshipmen will go on Summer Training Cruises each year. Non-scholarship midshipmen will go on a Summer Training Cruise between their Junior or Senior year. While on summer training midshipmen will be paid active duty Navy rates and will be provided travel, room and board at government expense.

4 and 2-Year NROTC Program

4-Year program students enroll in the program as Freshmen and participate until graduation.

2-Year program students enter the program after they complete approximately 90 hours (end of Sophomore year) and complete a six-week professional, academic, and physical training program conducted each summer by the Navy, normally in Newport, RI and referred to as Naval Science Institute (NSI). Academic work at the Naval Science Institute is the equivalent of the NROTC basic program and 18 hours of credit will be given to students who successfully complete NSI.

DESCRIPTION OF COURSES

NAVAL SCIENCE

NSC 101. Introduction to Naval Science I. (1-0-1)

Introduce midshipmen to NROTC Program mission, organization, regulations, and broad warfare components of the naval service. Included is an overview of officer and enlisted rank and rating structure, training and education, promotion and advancement, and retirement policies. This course also covers naval courtesy and customs, and naval leadership. *Fall, Spring.*

NSC 102. Introduction to Naval Science II. (2-0-2)

A study of the organization of the naval service, career opportunities, and the duties of a Junior Officer in the naval service. Students are familiarized with the major challenges facing today's naval officer, especially in the areas of leadership and human resource management. *Winter.*

NSC 104. Naval Ships Systems I. (Engineering) (5-0-5)

A detailed study of ship characteristics and types including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control. Basic concepts or the theory and design of steam, gas turbine, and nuclear propulsion, shipboard safety and firefighting are also covered. *Spring.*

NSC 203. Seapower and Maritime Affairs. (5-0-5)

A survey of American Naval and Maritime history from the American Revolution to the present with emphasis on major developments. Attention will be focused on Mahan's geopolitical theory; economic and maritime forces; U.S. military and maritime strategy; and a comparative analysis of American and Soviet maritime strategies. *Fall.* This course may be taught as a two quarter course: NSC 201 (2-0-2) and NSC 202 (3-0-3).

NSC 204. Naval Ship Systems II, Weapons. (5-0-5)
This course outlines the theory and employment of weapons systems. Students explore the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and naval ordinance. Fire control systems and major weapons types are discussed; The concept of command-control-and-communications are explored as a means of weapons systems intergration. *Winter.*

NSC 301. Basic Sailing I (Classroom). (1-1-1)
A basic foundation course that provides students with the fundamental knowledge and skills to be a competent crew member. The course covers the basic theory of sailing, nomenclature, seamanship, boat equipment and safety, and inland waters navigation rules for sailing craft. An "A" crew qualification will be issued upon completion. Prerequisite: Student must be a certified third class swimmers. *Fall, Winter. (PE Credit)*

NSC 302. Intermediate Sailing (On-water). (1-3-2)
Basic hands-on sail training leading to qualification as "B" skipper qualification. Practical skills to be mastered consist of rigging and sailing from a pier; sail to weather; sail two figure eight courses with two tacks and two jibes; man overboard maneuver; a capsize; and return to dock and secure. Prerequisites: NSC 301. *Spring. (PE credit)*

NSC 304-305. Navigation I & II. (3-2-5)
An in-depth study of piloting and celestial navigation theory, principles, and procedures. Students learn piloting navigation: the use of charts, visual and electronic aids, and the theory and operation of magnetic gyro compasses. Celestial navigation is covered in-depth including the celestial coordinate system, an introduction to spherical trigonometry, the theory and operation of the sextant, and a step-by-step treatment of the sight reduction process. Students develop practical skills in both piloting and celestial navigation. Other topics discussed include tides, currents, effects of wind and weather, plotting, use of navigation instruments, types and characteristics of electronic navigation systems, and a day's work in navigation. prerequisite NSC 304. *Fall, Winter sequences.*

NSC 306. Naval Operations. (5-0-5)
A study of the international and inland rules of the nautical road, relative-motion vector-analysis theory, relative motion problems, formation tactics, and ship employment. Also included is an introduction to Naval Operations and aspects of ship handling and afloat naval communications. Prerequisites: NSC 304 & 305. *Spring.*

NSC 307-308. Evolution of Warfare I & II. (3-0-3)
This course historically traces the development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, develop an understanding of military alternatives, and become aware of the impact of historical precedent on military thought and actions. *Fall, Winter.*

NSC 309. Marine Corps Laboratory. (0-3-0)
A course for Marine Corps Option students which stresses the development of leadership, moral, and physical qualifications necessary for service as Marine Corps officers. Practical laboratory exercises in mission and organization of the Marine Corps, duties of interior guards, introduction to military tactics, troop leadership procedures, rifle squad weapons and theory of physical conditioning program. This course serves to prepare students for the Marine Corps Summer Training at Officer Candidate School (BULLDOG). *Spring.*

NSC 401-403. Naval Operations Laboratory I, II, III. (0-1-0)

Practical laboratory exercises conducted in a dynamic, composite and time oriented fleet environment to further develop and improve surface warfare skills for Navy Option midshipmen. *Fall, Winter & Spring sequence.*

NSC 404. Leadership and Management I. (5-0-5)

A comprehensive study of the principles and concepts of institutional management, organizational and human behavior, and effective leadership. Students will develop additional knowledge and practical skills in the areas of communication theory and practices; Human Resources Management; Stress Management; Counseling; Group Dynamics; and the nature and dynamics of individual and institutional change, human resistance to change and the strategy for implementing change. *Fall.*

NSC 405. Leadership and Management II. (3-0-3)

A study of the Management responsibilities of a junior Naval Officer. The course covers counseling methods, military justice administration, naval human resources management, directives and correspondence, naval personnel administration, material management and maintenance, and supply systems. This course builds on and integrates the professional competencies developed in prior course work and professional training.

NSC 406-407. Amphibious Warfare I & II. (3-0-3)

A historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the 20th century, especially during World War II. Present day potential and limitations on amphibious operations, including the rapid deployment force concept. *Fall, Winter.*

NSC 450. Naval Drill. (0-2-0)

Introduces students to basic military formations, movements, commands, courtesies and honors, and provides practice in Unit leadership and management. Physical conditioning and training are provided to ensure students meet Navy/Marine Corps physical fitness standards. Successful completion of three quarters of this course by NROTC students satisfies the College's six hour Physical Education requirement. NSC 450 is required each quarter for all NROTC students (450.1 for Freshman and Sophomores; 450.2 for Junior and Seniors).

DEPARTMENT OF MILITARY SCIENCE (ROTC)

CAPTAIN KEITH MERRELL, Head

Master Sergeant George McAdams

Angie Lewis, Secretary

General

The Department of Military Science is a Senior Division Reserve Officer Training Corps (ROTC), Instructor Group, staffed by active army personnel. The Armstrong State department provides a curriculum available to Savannah State students that qualifies the college graduate for a commission as an officer in the United States Army, United States Army Reserve, or the United States Army National Guard. Qualifying for a commission added an extra dimension to the student's employment capability in that upon graduation from college, the student has either military or civilian employment options.

The course of study offered in military science is designed not only to prepare the student for service as a commissioned officer in the United States Army but also to provide knowledge and practical experience in leadership and management that will be useful in any facet of society. Male and female students are eligible for enrollment. Each student is provided with a working knowledge of the organization and functioning of the Department of Defense and the role of the U.S. Army in the national security and world affairs.

The course of study pursued by students during their freshman and sophomore years is the basic military science course and/or related skill activities. The course of study normally pursued by students during their junior and senior years is the advance military science course.

For selection and retention in the advanced course, a student must be physically qualified, should have maintained above average military and academic standing, and must demonstrate a potential for further leadership development.

Graduates of the advanced course are commissioned Second Lieutenants in the United States Army Reserve in the branch of service most appropriate to their interests and academic achievements, consistent with the needs of the Army. Regardless of the branch selected, all officers will receive valuable experience in management, logistics and administration. Graduates may be granted a delay in reporting for duty for graduate study if requested. A small number of outstanding students are designated Distinguished Military Graduates and are offered commissions in the Regular Army each year.

Basic Military Service

Basic military science courses involve six quarters during the freshmen and sophomore years. The student learns leadership and management and acquires essential background knowledge of customs and traditions, weapons, map reading, tactics and survival. Equally important, these courses have the objective of developing the student's leadership, self-discipline, integrity and sense of responsibility.

Advanced Military Science

Veterans entering the military science programs will receive appropriate placement credit for their active military service. Students who have completed military science courses in military preparatory schools or junior colleges may be given appropriate credit. Students with at least three years of high school ROTC may also be granted placement credit. Placement credit or six quarters of basic military science, or equivalent thereof, is a prerequisite to admission into the advanced program.

Placement

The general objective of this course of instruction is to produce junior officers who by education, training, attitude and inherent qualities are suitable for continued development as officers in the Army. There are two avenues available for the student to be eligible for entry into the advanced program and obtain a commission as a second lieutenant:

(a) satisfactory completion of, or placement credit for, the basic program basic ROTC and meeting the entrance and retention requirements established by the Army.

(b) to be an active duty veteran or junior ROTC cadet graduate eligible for placement credit.

Alternate Programs for Admittance

Students with two years of coursework remaining, but who have not completed basic military science are eligible to be considered for selection into the advanced military science program. Those selected under the provisions of the two-year advanced program must satisfactorily complete a basic summer camp of six weeks duration prior to entering the advanced program. Students attending the basic camp at Fort Knox, Kentucky, are paid at active army rates and given a travel allowance from their home to camp and return. Attendance at Basic Camp is voluntary and incurs no military obligation until the student returns and decides to sign a contract to pursue a commission.

Participating Students and Aliens

Some students and aliens may participate in the Advanced Course classes provided they meet the requirements outlined in Army Regulations. They receive no subsistence allowance and may only participate in classroom instruction. For specific details on this program, see the Department Head **before** registering for a course.

Advanced Summer Camp

Students contracting to pursue the advanced courses are required to attend advanced summer camp, normally between their junior and senior academic years at Fort Riley, Kansas. Students attending this camp are paid at active army rates and given travel allowance from their home to camp and return.

Financial Assistance

All contracted advanced cadets are paid a subsistence allowance of $100 per month while enrolled in the advanced course.

Scholarship Program

Each year the U.S. Army awards one, two- and three-year scholarships to outstanding young men and women participating in the Army ROTC program who desire careers as Army officers. The Army pays tuition, fees, books and laboratory expenses incurred by the scholarship student. In addition, each student receives $100 per month for the academic year. Individuals desiring to compete for these scholarships should apply to the Military Science Department.

Army ROTC Uniforms, Books and Supplies

Students enrolling in the Army ROTC program will be issued U.S. Army uniforms, books and supplies by the Military Science Department. No fees or deposits of any kind will be required. Uniforms must be returned before commissioning or upon disenrollment from the ROTC program.

(MIL) Courses

The basic course of six quarters duration consists of two hours of classroom work per week. In the classroom, the student acquires knowledge of military leadership weapons, tactics, basic military skills, and physical fitness. In field training exercises, potential for leadership is progressively developed.

The advanced course consists of three hours of classroom work and one hour of leadership laboratory per week. During the spring quarter prior to advanced camp the student will enroll in MIL 303 to prepare for attendance at Advance Camp. History 201 (American Military History) is normally taken the spring quarter of the senior year. The coursework during the advanced course emphasizes techniques of management and leadership and the fundamentals and dynamics of the military team. Field training exercises provide the student with applied leadership experiences.

Minor Concentration

The department offers a minor in Military Science. The program is designed to prepare the student for a commission in the United States Army and is offered to, but not required of, those students participating in the advanced course of Army ROTC instruction. Whatever the major, a Military Science minor will strengthen the student's management, leadership, and interpersonal communication skills. The minor requires:

Fourteen credit hours with grades of "C" or better in the following upper division military science courses: 301, 302, 303, 401, 402, 403, HIS 201 and five additional credit hours of course-work approved by the Department Head.

Basic Course

101. Army Leadership. (1-1-2)

A study of the various aspects of leadership doctrine and how to apply the doctrine in various situations. Prerequisite: None.

102. Basic Weapons and Military Skills. (1-1-2)

A study of characteristics of basic military weapons with emphasis on the principles and fundamentals of rifle marksmanship. The students will have an opportunity to fire selected weapons at a U.S. Army installation. Prerequisite: None.

103. Basic Survival. (2-0-2)

A study and practical exercise introducing military technique used to sustain human life when separated from logistical support. A field trip for qualified students is used to enable them to practice techniques learned. Prerequisite: None.

104. Maruder Platoon Operation. (0-2-1) Audit Only

An organization designed to train and prepare the small unit leader with the necessary skills to be effective in his role of leadership. Skills covered will be patrolling, military mountaineering, leadership, operations orders, and a physical training program. Students are required to attend the leadership laboratory and planned training exercise.

201. Map Reading and Land Navigation. (1-1-2)

A study of basic map reading as applied by the small unit leader. Prerequisites: MIL 101, 102, 103, or approval of Department.

202. Basic Tactics and Operations. (1-1-2)

A study of small unit tactics, operations and troop leading procedures to include the combined arms teams to the platoon with primary interest on the rifle squad.

203. Mountaineering Techniques. (2-0-2)

A study and practical exercise introducing the fundamentals of repelling, first aid, knot tying, and safety. A field trip to utilize skills is included. Prerequisites: MIL 101, 103, 201, 202, or approval of Department Head.

204. Military Communications. (2-0-2)

A study of military communications procedures to include terminology, security, electronic warfare and preparation of military correspondence. Prerequisite: None.

MIL 206 Basic Self Defense I (2-0-2)

A Basic Self Defense Course which provides study of defensive philosophy, vulnerable areas of body, exercises, kicks, strikes, throws, and arm bars. The course also includes basic self-defense strategy and practical exercises utilizing all of the techniques taught in the course. Prerequisites: MIL 104 or MIL 203 or approval of Department.

Advanced Course

301. Leadership and Management I. (3-1-3)

A study of the psychology of leadership, techniques of management, and methods of instruction to include practical application. Prerequisite: Basic Course or equivalent and permission of the Department.

302. Fundamentals and Dynamic of the Military Team I. (3-1-3)
A study of tactics applied at the platoon and company level to include a study of the modern battlefield and current military tactical doctrine. Prerequisite: Basic Course or equivalent and permission of the department head.

303. Leadership Seminar. (3-1-3)
A series of seminars, laboratories and experiences to prepare the student for Advanced Summer Camp. Prerequisites: MIL 301 and 302.

304. Military Skills Practicum. (5 credit hours)
The study and practical application of military skills and leadership ability during a six week encampment experience. Grading for this course will be done on a satisfactory, unsatisfactory basis. Instruction and evaluation is jointly accomplished by college staff and selected ROTC personnel assigned to 3rd ROTC Region. Prerequisite: Military 303 and permission of department. *Summer.*

401. Fundamentals and Dynamics of the Military Team II. (3-1-3)
A study of command staff duties and responsibilities of the professional officer to include operations, intellegence, administration and logistics. Prerequisites: MIL 301 and 302.

402. Leadership and Management II. (3-1-3)
A study of military history, the military justice system and service orientation. Prerequisites: MIL 301 and 302.

MIL 403 Transition From Cadet to 2nd Lieutenant. (2-0-2)
A study of the newly or newly commissioned lieutenant. This course assistant in making the transition from ROTC Cadet to Lieutenant. Prerequisites: MIL 401 and 402.

Advanced Course Physical Training

Physical Training (PT) is an important part of the Army ROTC program. It's purpose is to ensure each cadet is physically fit. The Army Physical Readiness Test (APRT) is designed to determine the level of fitness by measuring a cadets endurance and stamina in three different events: Pushups, situps, and a 2-mile run.

Advance course cadets are required to participate in physical training (PT) as part of their regular military science class. PT is conducted 3 days a week for one hour. Six hours of P.E. credit are given to those cadets who successfully complete the Army ROTC Advance Course. (1 credit hour per course)

Basic Course students who participate in the following classes MIL 103, 203, and 206 receive 1 credit hour of P.E. per course.

DEVELOPMENTAL STUDIES PROGRAM

WILLIE B. McLEMORE, Director

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ADMISSION

Entering freshmen whose Scholastic Aptitude Test (SAT) scores are less than 750 and those above 750 with SAT verbal or SAT math less than 350 or whose ACT composite scores are less than 16 or above 16 and less than 16 on the English and 11 on the math must take the Collegiate Placement Examination (CPE). College-wide cut off scores on the aforementioned tests in conjunction with other standard and locally constructed instruments are utilized to determine exemption from the placement into the Developmental Studies courses. CPE cut off scores for exemption and exit effective Fall 1988 are: English - 75, Math - 75, Reading - 75.

DEVELOPMENTAL STUDIES PROGRAM

The Developmental Studies Program is designed for entering students who have demonstrated marked deficiencies in English, Reading, and Mathematics.

A "Developmental Studies Student" is any student whose score on either portion of the Collegiate Placement Examination (CPE) was lower than the passing score given above. Such students must take all Developmental Studies courses (courses numbered 99 or below).

The philosophy of the Development Studies Program is that although there are slow learners and fast learners, when provided with favorable learning conditions, most students become very cimilar with regard to learning ability, rate of learning, and motivation for further learning. The Program supports and is committed to the contention that "high risk" students possess strengths that should be developed and weaknesses that can be remediated. In order to facilitate this growth and development, each of the three components of Savannah State's Program of Developmental Studies has created objectives designed to promote the overall mission of the Program and the College. They are: (1) to correct and strengthen oral and written communicative skills since the former impacts upon the latter; (2) to correct the mathematical deficiencies of developmental studies students; and, (3) to provide reading instruction for those students who lack academic proficiency. These objectives are based on the desire of Development Studies' faculty and staff to support the students pursuit of academic excellence and life survival skills.

A student shall not be allowed more than four quarters of four attemps to complete deficiencies. A student who fails to successfully exit any one or more courses within the four quarters or four attemps limitation shall be excluded

from Savannah State College and any other unit of the University System of Georgia for one quarter. This exclusion does include summer quarter. A student who fails to complete all Developmental Studies requirements within one quarter of re-entry, after the first exclusion, shall be excluded for one year (four quarters).

A student may not accumulate more than 30 hours of degree credit before finishing his Developmental Studies requirements. Any student who does accumulate 30 credit hours or more and who has not successfully completed the required Developmental Studies courses may enroll **only** in Developmental Studies courses until Developmental Studies requirements are successfully completed.

Successful completion or exit from Developmental Studies will occur only after a student has successfully completed the required courses and met the minimum exit scores in each subject area and successfully passes a final writing sample.

No degree credit will be awarded for Developmental Studies course work. Institutional credit only will be awarded.

Retesting any Fourth quarter students who passes an exit level course and fails to pass the Collegiate Placement Examination (CPE) will be given one opportunity to retest at the end of that quarter. Any student who passes a Developmental Studies Course, but who fails the CPE by three points will be given one opportunity to retest at the end of that quarter.

The following grade standards will be adhered to by students, only in all class and lab assignments:

A = 91-100
B = 81- 90
C = 75- 80
D = 70- 74

Final Grades will be S, IP, U, F

1. A grade of S indicates that a student successfully completed the course, has met all requirements in the subject area, (including, attaining the state-required score on the CPE for English, math and reading) and is eligible to take regular credit courses in that subject area.
2. A grade of IP (in progress) indicates that a student is making satisfactory progress in the subject area course sequence, but is required to enroll in the next level developmental studies course.
3. A grade of U (unsatisfactory) indicates that a student has less than a 75 average at the end of the 1st, 2nd, or 3rd quarter and must repeat that level course.
4. A grade of D indicates that a student has passed the exit level course, but failed the CPE and must repeat the course.
5. A grade of F indicates exclusion, no exit. This means that a student has unsuccessfully repeated the state-required number of quarters in remedial courses and must be terminated from the College.

DESCRIPTION OF COURSES

ENG 097. English Fundamentals I - Grammar.

English 097 is a comprehensive course in basic grammar and sentence mechanics with emphasis on paragraph writing. This course is designed for entering students who scored below 70 on the CPE. To complete this course, students must satisfy class requirements and pass a paragraph writing sample. Students meeting these requirements will enroll in English 098 during the next quarter of matriculation, and those failing the requirements will repeat English 097. However, students who **passed** the Placement Writing Sample and who are in **good standing** will have the opportunity to sit for the post-CPE at the end of the quarter. Students scoring 75 or better will have completed all English requirements and will enroll in college freshman English during the next quarter of matriculation, and those scoring below 75 will enroll in English 098 for additional remediation.

ENG 098. English Fundamentals II - Composition.

English 098 offers instruction in outlining and prewriting, developing the multiparagraph essay building vocabulary, and improving sentence skills. A laboratory oriented course, it provides learning situations in both the classroom and Writing Lab. This course is designed for students who passed English 097 but who need an additional course to satisfy English requirements. It is also designed for entering students who fall into any of the three folloiwng categories: (1) failed the Placement Writing Sample and failed CPE with a score of 70-74, (2) passed the Placement Writing Sample but failed CPE with a score of 70-74, or (3) failed the Placement Writing Sample but passed the CPE with a score of 75 or better. To exit this course, students must satisfy class requirements and pass the Exit Writing Sample and post-CPE (or whichever comparable portions they failed at Placement). Students needing both portions of the exit exams must pass the exit Writing Sample before sitting for the CPE. Students satisfying English requirements will enroll in college freshman English during the next quarter of matriculation. Students failing class requirements or any portion of the exit exams will repeat English 098.

RDG 097. Reading Foundations I. (5-0-5)

Reading Foundations 097 is an individualized and classroom directed course in reading. The specific skills to be taught in this course are: scanning, substitutions, context clues, inferences, main ideas, supporting details, comparisons, sequence, cause and effect, problems and solutions, summarizing, fact and opinion, bias/viepoint, persuasion, relevance/proof, setting/tone/theme, and character and feelings. A student who scores below 70 on the reading portion of the CPE will be placed in this course. Writing assignments are an integral part of this course. Subsequent placement in RDG 098 will be determined by the exit requirements for this course.

RDG 098. Reading Foundations II (5-0-5)

Reading Foundations 098 is also an individualized and classroom directed course in reading, and the same skills as in RDG 097 are taught and reinforced e.g. scanning, substitutions, context clues, inferences, main ideas, supporting details, comparisons, sequence, cause effect, problems and solutions, summarizing, fact and opinion, bias/viewpoint, persuasion, relevance/proof, setting/tone/theme, and character and feelings. The differences between 097 and 098 are the level of content, placement, and exit requirements. A student who scores above 70 on the reading portion of the CPE will be placed in this course. Writing assignments and laboratory assignments are an integral part of this course.

MAT 097. Basic Mathematics I: Arithmetic and Elementary Algebra. (5-0-5)

A study of the fundamental operations of arithematic as they apply to rational numbers, decimals, fractions, mixed numbers, percents, signed numbers, roots, and powers. The course also includes an introduction to the terminology associated with polynomials evaluating algebraic expressions, as well as the addition, subtraction, multiplication, and division of polynomials. The course is designed to give students a working knowledge of arithmetic and introduce some key elementary algebra concepts.

A student who scores below 70 on the Math CPE will be placed in this course.

MAT 098. Basic Mathematics II: Elementary Algebra. (5-0-5)

A study of first degree equations in one and two variables, first degree inequalities in one variable, graphing linear equations and linear inequalities, special products and factoring, solving quadratic equations, and basic plane geometry.

A student who scores between 70 and 74 on the Math CPE Pretest will be placed in this course.

FACULTY AND STAFF 1989-90

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Calvin Knowles ..... *Audio Visual Technician I*
A.B., Savannah State College

Margaret Ilugbo ..... *Secretary*

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B.S., Savannah State College; M. Div., Howard University; D. Min., Emory University

Festine L. Butler ..... *Staff Assistant*
B.S., Savannah State College

Joanne Quarterman ..... *Secretary to the Vice President for Student Affairs*

Claudette Franklin ..... *Resident Manger, Lockette Hall*
B.S., North Carolina A&T University; M.Ed., University of Wisconsin

Curbert Burton ..... *Resident Manager, Bostic Hall*
B.S., Savannah State College

Joseph Crosby ..... *Counselor and Intramural Sports Coordinator*
B.S., North Carolina A & T University

Otis Brock ..... *Residence Hall Counselor*
B.S., Savannah State College; M.A., New York University

Aubrey Mumford ..... *Student Affairs Counselor*
B.S., Savannah State College, M. Ed., Savannah State College

Yvonne Roberts ..... *Coordinator of Career Planning and Placement*
B.S., Savannah State College

Calvin L. Butts ..... *College Physician*
B.S., Savannah State College M.D., University of Cincinnati

Nathaniel Patrick ..... *Pharmacist*
B.S., Xavier University

Elizabeth Chapman ..... *College Nurse*
LPN

Gwendolyn Frazier ..... *Nursing Supervisor*
RN

Sylvia Hutchinson ..... *College Nurse*
LPN

Judy Johnson ..... *Secretary/Infirmary*

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Catherine Baker ..... *Administrative Secretary*
B.S., Savannah State College

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Armstrong State College-Savannah State College
B.A., M.A., Ph.D., Florida State University

Rosemary Banks ..... *Program Director*
B.S., Savannah State College; M.Ed., Savannah State College Armstrong State College

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M.H.S., Lincoln University (Pennsylvania)

Edna B. Jackson ..... *Director of Alumni Affairs*
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Beverly Brown-Hern ..... *Public Relations Specialist*

Lee Grant Pearson ..... *Sports Information Director*
B.S., Savannah State College

Noami Calhoun ..... *Administrative Assistant*

Bonnie Howard ..... *Staff Assistant*
B.A., Savannah State College

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A.B., Birmingham Southern College, M. Ed., Armstrong/Savannah State Colleges, Ed. D., University of Georgia

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Rachel H. Claiborne ..... *Psychometrist/Counselor*
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Shirley B. James ..... *Counselor*
B.S., Spelman College; Ed.M., Harvard

Vara Allen ..... *Counselor*
B.A., Savannah State College

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Mrs. Carol P. Gordon ..... *Manager*
B.S., Savannah State College

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B.S., Savannah State College

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B.S., Savannah State College

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Kim Grant-Albright ..... *Field Coordinator*

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Matilda Scott ..... *Accounting Clerk*
B.S., Savannah State College

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B.S., Savannah State College

Priscilla Bryan ..... *Accounting Clerk III*
B.S., Savannah State College

Velma W. Johnson ..... *Accounting Clerk III*
B.S., Savannah State College

Alfred Brown ..... *Logistical Support Manager*
B.S., Savannah State College

Bethea Lee, Jr. ..... *Stores Clerk II*

Juanita Murchison ..... *Data Entry Clerk II*

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B.S., Savannah State College

Lawrence Simmons ..... *English Laboratory Technician*
B.S., Savannah State College

Keith Wilson ..... *Counselor*
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Mary Ann Goldwire ..... *Reading Laboratory Technician*
B.S., Savannah State College

Beverly Johnson ..... *Secretary*

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B.S., Savannah State College; M.P.A., Savannah State College

Alonzo Adams, Jr. ..... *Public Safety Officer*

William Beach ..... *Security Guard*

Robin Bulloch ..... *Telephone Operator*

Yvonne Cutter ..... *Secretary*

Jerome Ferguson ..... *Sergeant*

Juliette Freeman ..... *Security Guard*

Leroy Groover ..... *Lieutenant*

Richard Hunter ..... *Security Guard*

William Lester ..... *Public Safety Officer*

JoAnn Mitchell ..... *Sergeant*
B.S., Savannah State College

William Wilcox ..... *Lieutenant*

Marva Williams ..... *Communications Operator*

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Henrietta Jones ..... *Postal Services Supervisor*

Antionette Drayton ..... *Mail Clerk*

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Gary N. Allen ..... *Office Manager*
B.S., Savannah State College

Otis Charlton ..... *Superintendent of Housekeeping*

Herbert C. White ..... *Preventive Maintenance and Inspection*
B.S., Alabama A&M, M.S. Tuskegee Institute

Anthony Kennedy ..... *Warehouse Supervisor*

Elias Golden ..... *Superintendent of Gounds Maintenance*
B.S., Florida A & M University

Ulyses Burrell ..... *Building Inspector*

SECRETARIES

Catherine Baker ..... *Title III*
B.S., Savannah State College

Lenora Blalock ..... *Humanities*
B.S., Savannah State College

Patricia Rutledge ..... *Personnel*

Elizabeth Evans ..... *NROTC*

Regina Evans ..... *Office of Business and Finance*

Carolyn W. Gillyard ..... *School of Business*
B.S., Savannah State College

Bonnie Howard ..... *Development & College Relations*

Zelda James ..... *School of Business*
B.S., Savannah State College

Elizabeth Jenkins ..... *Biology*

Jeanette Jenkins ..... *Social Work and Applied Sociology*

Beverly Johnson ..... *Developmental Studies*

Carless Lawyer ..... *School of Sciences and Technology*

Barbara McFall ..... *Social and Behavioral Sciences*

Winifred Mincey ..... *Financial Aid*

Sheri Williams Saleem..... *School of Business*
A.A., Armstrong State College

Delores Williams ..... *Department of Engineering Technology*

Josie Williams..... *School of Humanities and Social Sciences*

Patricia Williams..... *School of Business*
B.S., Savannah State College

Joyti Krishnamurti ..... *School of Humanities and Social Sciences*

DEPARTMENT OF MILITARY SCIENCE
ARMY ROTC

Captain Keith Merrell..... *Associate Professor of Military Science*

MSG George McAdams ..... *Instructor*

Angie Lewis ..... *Secretary*

WHERE TO WRITE OR CALL

There is a central mail room on campus. Specific Information may be obtained by writing to the offices listed below and adding:
Savannah State College
State College Branch
Savannah, GA 31404

ADMISSION
Director of Admissions & Records
(912) 356-2181 or 356-2212

ALUMNI
Alumni Affairs
356-2286

ATHLETICS
Director of Athletics
356-2278

BUSINESS MATTERS
Vice President of Business & Finance
356-2300

CAREER PLANNING & PLACEMENT
Director of Career Development and Placement
356-2285

CATALOG
Director of Admissions
356-2181

CONTINUING EDUCATION
Coastal Georgia Center for Continuing Education
356-2322

COUNSELING
Director of Comprehensive Counseling & Testing
356-2202

FINANCIAL AID, GRANTS, LOANS WORK-STUDY ELIGIBILITY
Director of Student Financial Aid
356-2253

GENERAL ACADEMIC AND FACULTY MATTERS
Vice President of Academic Affairs
356-2204

GIFTS, GRANTS & BEQUESTS
Director of Development
356-2286

GRADUATE STUDY
Dean, School of Business - MBA
356-2335
Director of Admissions and Records
356-2212
MPA Coordinator
356-2360

HOUSING
Director of Housing
356-2324

MINORITY STUDENTS
Minority Recruitment Office
356-2181

PUBLIC INFORMATION
Director of College Communications
356-2322

SECURITY
Campus Security
356-2188

TUITION, PAYMENT OF BILLS, REFUNDS
Vice President for Business & Finance
356-2300

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